



CARR-RYDER
& ADAMS CO.
DUBUQUE,
IOWA

BILT & WELL
MILL & WORK
REGISTERED

Homes of Comfort

SERIES 100



Re - Homes of Comfort

"I have always felt that the best security for Civilization is the dwelling and that upon properly appointed and becoming dwellings depends more than anything else the improvement of mankind." —

Disraeli

BILT + WELL
MILL + WORK
REGISTERED

Homes of Comfort

SERIES 100



CARR-RYDER
& ADAMS CO.
DUBUQUE,
IOWA



for

*Homes of
Comfort*

A Home of Comfort is the Home You Want

THE thirty homes herein presented for your selection contemplate combined comfort, convenience, beauty and economy. No time nor effort was spared by our staff of architects in perfecting these homes.

VARIETY

In making the plans every taste, need, desire, and condition was considered, resulting in the wide selection we offer you, varying in size and kind from the bungalow to the four apartment building. Whether you want a one story, story-and-a-half, two story—frame, brick, or stucco home—your range of selection is equally wide, for we describe an approximately equal number in each style of home.

SERVICE

Should you find a home calling for brick construction that you would prefer to have in frame or stucco, our plan department will gladly make the changes desired. Likewise, should you want a change in a floor plan—a living room moved from the left to the right side of the house—in fact, where changes of any kind seem desirable, our Plan Service Department stands ready to serve you.

COMFORT—CONVENIENCE

Particular attention has been given to all the conveniences which lighten the burdens of the housewife. In these *Homes of Comfort* you will find many built-in conveniences, such as kitchen cabinets, sideboards, mantels, and bookcases, which not only save time and labor, but add to the attractiveness of the rooms. Special care has been taken to make practically every room of a comfortable, convenient size, in keeping with the general plan of the building.

ECONOMY

In planning these *Homes of Comfort*, we have kept constantly in mind the prime need of economy, as we realize that price is often a determining factor in selecting a home. Wherever possible, we have made the foundation of rectangular shape, omitting unnecessary "off-sets," which increase the cost of building. We have also held as closely as practical to standard lumber dimensions, and in the brick houses we have specified brick veneer, incorporating many other features, all consistent with economy, convenience and comfort.



BILT + WELL
MILL WORK
REGISTERED

BW-104



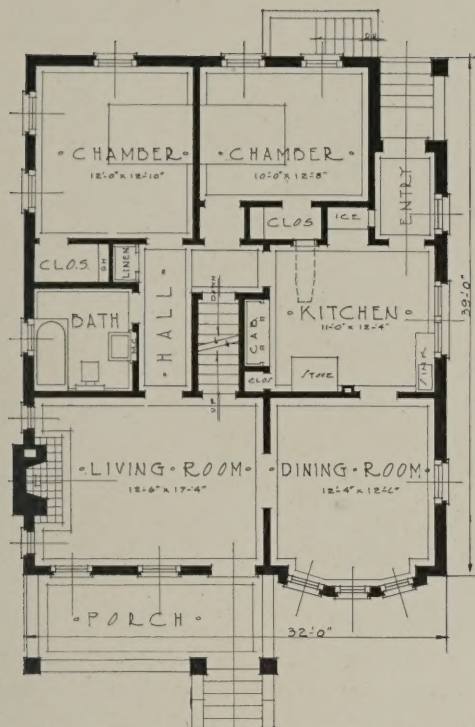
BW-1073 Kitchen Cabinet, which we have placed in this home, is complete in every detail. The illustration is from page 260 of our large Catalog No. 33.

AN air of restfulness is suggested in this charming brick design. Its very lines spell "home." From its porch of large dimensions, you enter the living room with its mantel and book-cases. The French doors leading from this room to the dining room emphasize spaciousness and enhance the beauty of the general effect.

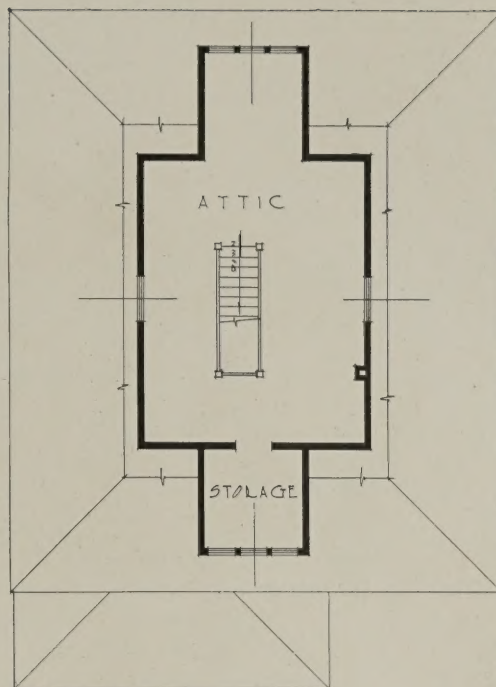
The building here pictured is of brick veneer; this, together with its rectangular foundation, makes it possible to construct this home at less cost than its appearance might indicate.

Labor-saving arrangements and built-in furnishings make this house particularly well adapted for those who desire a comfortable, modern home at a modest cost.

Bungalow 32'-0" x 39'-0"



• FIRST FLOOR PLAN •



• ATTIC FLOOR PLAN •

BW-104

BILT + WELL
MILL WORK
REGISTERED

MILLWORK RECOMMENDATIONS

Front Door	BW- 260
Rear Door	BW- 214
Interior Doors	BW- 450
French Doors	BW- 482
Two Light Windows	BW- 720
Interior Trim	BW- 780
Moulded Cornice	BW- 968
Kitchen Cabinet	BW-1072
Mantel Shelf	BW-1214
Medicine Cabinet	BW-1098
Linen Case	BW-1112
Ironing Board	BW-1096

Designs from Catalog No. 35.

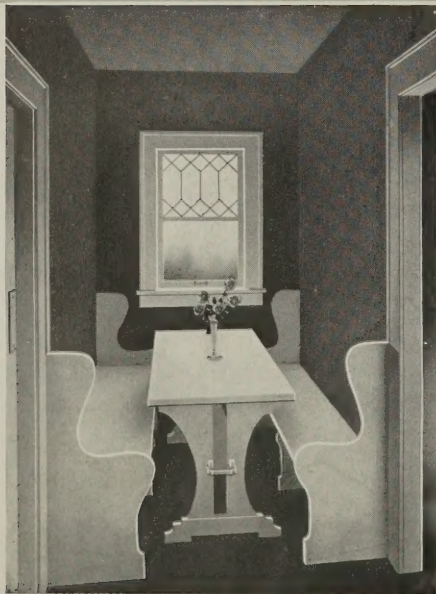


BW-1112 Linen Case is suggested for use at the end of the hallway where it is conveniently near the bedrooms. Design from page 273 of our large Catalog No. 35.



BILT + WELL
MILL WORK
REGISTERED

BW-106

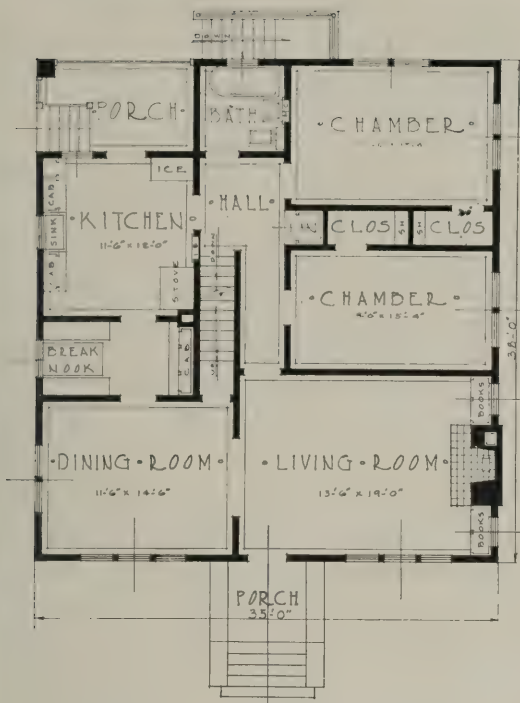


BW-1116 Breakfast Nook—we did not hesitate to illustrate this neat Breakfast Nook which can be used in this home. Design from page 275 of our large Catalog No. 35.

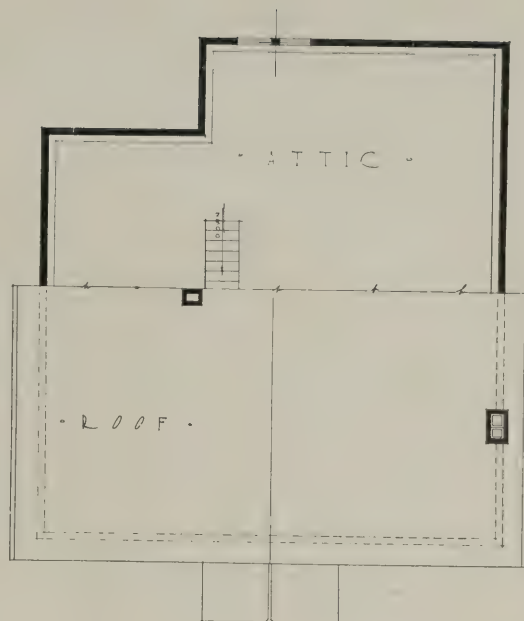
THIS stucco and brick bungalow, charming in its simplicity, suggests a wonderful combination of beauty and convenience, with an economy of materials and space.

Its attractive doorway leads to a living room in which the mantel and bookcases give an atmosphere of warmth and coziness. The dining room is cheerful, as it is brightened by five windows. In the kitchen, the sink is a part of the large cabinet and an ironing board folds into the wall. Opposite the pantry kitchen cabinet is an "intimate" breakfast nook. Large bedroom closets, a roomy linen case and many other conveniences make this an ideal home for every member of the family.

Bungalow 35'-0" x 38'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-106

MILLWORK RECOMMENDATIONS

Front Door	BW- 280
Rear Door	BW- 232
Interior Doors	BW- 454
Interior Trim	BW- 765
Moulded Cornice	BW- 960
Kitchen Cabinet (similar)	BW-1090
Pantry Cabinet	BW-1072
Mantel and Bookcase	BW-1186
Medicine Cabinet	BW-1098
Wardrobe	BW-1108
Ironing Board	BW-1096
Breakfast Nook	BW-1116

Designs from Catalog No. 35.



BW-1186 Mantel and Bookcase combination from page 203 of our large Catalog No. 35 has been placed across the end of the living room. It will help to make a very complete arrangement.



BW-1090 Kitchen Cabinet - the convenience of the sink being built into the counter of this cabinet will save many steps. Illustrated on page 266 of our large Catalog No. 35.



BW-108



BW-1076 Kitchen Cabinet is shown in a reversed position. Illustration from our large Catalog No. 35, page 262.

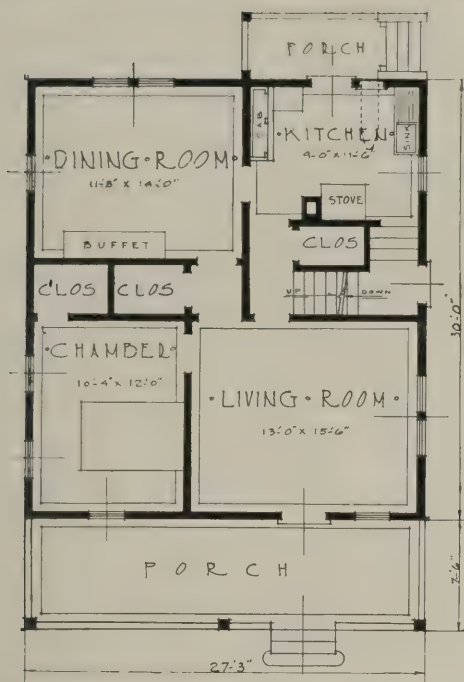
PLAIN and unpretentious, this frame dwelling is suited for a medium sized family of moderate means. It is designed for comfort—expensive ornamentation is avoided—and this gives it the charm of simplicity.

The porch is large—and the living room is of good size. A mantel may be built in if desired. There is ample room for a sideboard or a buffet in the dining room. If desired, the bedroom at the left of the living room may be converted into a cozy den or library.

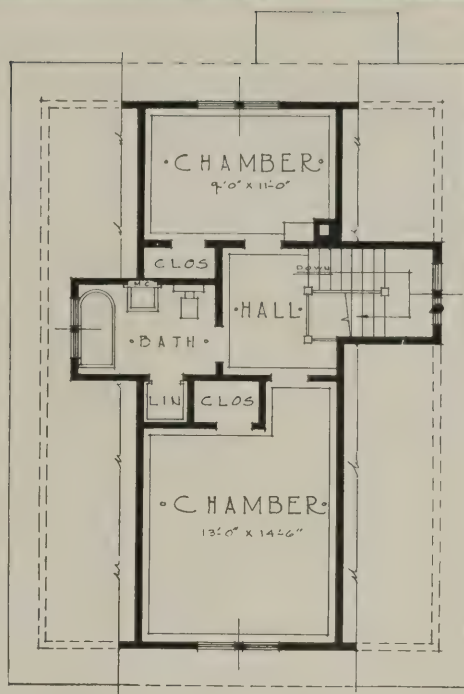
On the second floor are two bedrooms, a bath and closets; in the bath room there is a built-in wardrobe.

This is an ideal, unostentatious home for a typical American family.

Bungalow 27'-3" x 30'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-108

MILLWORK RECOMMENDATIONS

Front Door	BW- 252
Rear Door	BW- 214
Grade Door	BW- 214
Interior Doors	BW- 452
Two Light Windows	BW- 720
Interior Trim	BW- 780
Moulded Cornice	BW- 966
Kitchen Cabinet	BW-1076
Buffet (similar)	BW-1050
Medicine Cabinet	BW-1098
Wardrobe	BW-1109
Ironing Board	BW-1096

Designs from Catalog No. 35.



BW-1109 Wardrobe has been placed in the bath room and will be appreciated for its convenience. Design is from page 271 of our large Catalog No. 35.



BW-110



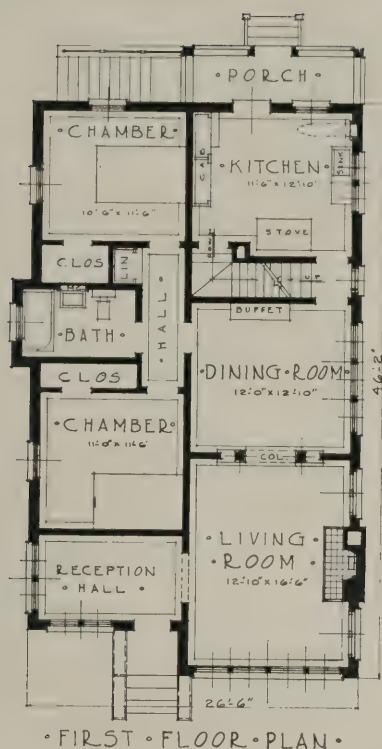
BW-1112 Linen Case will be found very conveniently located in the hallway. Design is from page 273 of our large Catalog No. 35.

HERE is a charming brick and stucco bungalow with graceful, sloping lines consisting of a living room, dining room, bath, kitchen and two bedrooms. There is a store room in the attic.

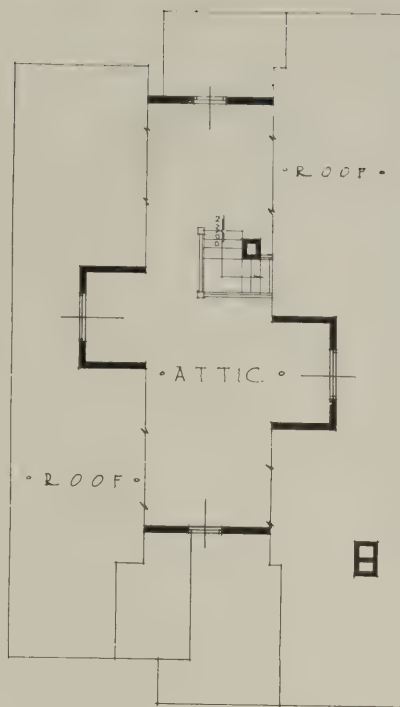
Notice the artistic effect produced by the skillful arrangement of the brick and stucco. The four front windows of the living room produce a sun parlor effect.

A mantel gives the desired warmth to the living room—and the buffet in the dining room is both useful and decorative. This is an ideal home for a moderate size family.

Bungalow 26'-6" x 40'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-110

MILLWORK RECOMMENDATIONS

Front Door	BW- 234
Rear Door	BW- 234
Interior Doors	BW- 456
Two Light Windows	BW- 710
Interior Trim	BW- 780
Buffet	BW-1050
Mantel Shelf	BW-1202
Colonnade	BW-1160
Kitchen Cabinet	BW-1068
Linen Case	BW-1112
Ironing Board	BW-1096

Designs from Catalog No. 35.



BW-1160 Colonnade will be appreciated for both design and convenience between the living and dining rooms. The selection is from page 285 of our large Catalog No. 35.



BW-1050 Buffet in the position placed, it can be seen from the living room through the colonnade. Illustration from our large Catalog No. 35 on page 252.



BUILD WELL
WITH WORK

BW-112

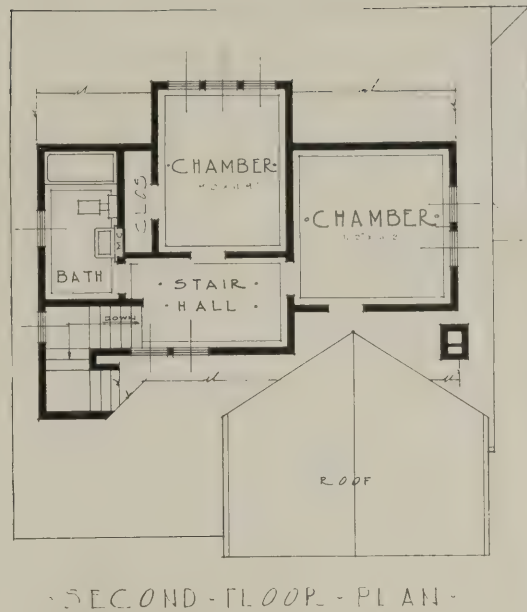
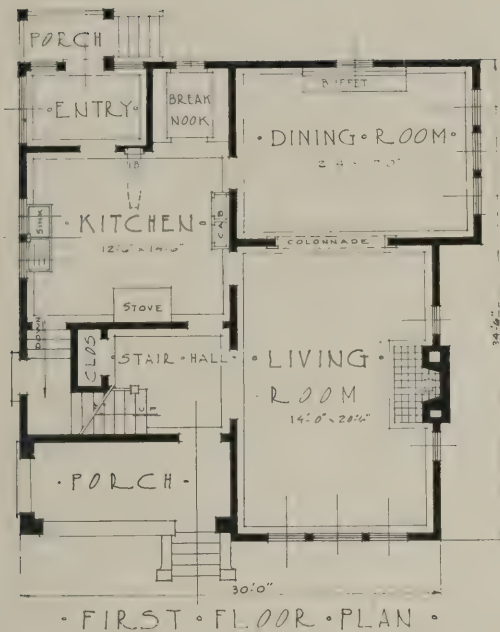


BW-1096 Ironing Board folds into the wall and is a very acceptable convenience. It will save both space and time. Illustrated on page 268 of our large Catalog No. 35.

A COZY and convenient arrangement in a story-and-a-half stucco cottage adapted for a moderate sized family. Notice the plan of the kitchen—you have access from the front or rear without entering any of the living rooms. The front and rear porches are roomy and the living room, with its beautiful mantel, is large and cheerful.

The dining room, which has a handsome buffet, is conveniently located and may be entered direct from the living room or kitchen. The kitchen has a cabinet and other conveniences to lighten housework. A bath, two bright bedrooms and closets are on the second floor. This pretty home will fulfill all your expectations of comfort.

Bungalow 30'-0" x 34'-6"



BW-112

MILLWORK RECOMMENDATIONS

Front Door	BW- 258
Grade Door	BW- 258
Rear Door	BW- 214
Interior Doors	BW- 450
French Doors	BW- 484
Interior Trim	BW- 855
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1068
Buffet	BW-1054
Mantel Shelf	BW-1202
Colonnade	BW-1154
Medicine Cabinet	BW-1100
Ironing Board	BW-1096
Breakfast Nook	BW-1116
Stairway (similar)	BW-1334

Designs from Catalog No. 35.



BW-1068 Kitchen Cabinet from page 258 of our large Catalog No. 35 and is suggested for this home although BW-1070 or BW-1076 could be used if more cabinet space is desired. Design from page 258 of our large Catalog No. 35.



BW-114



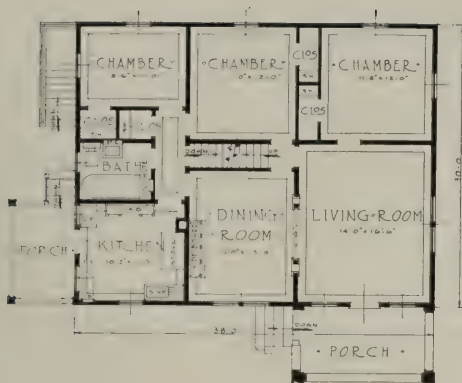
BW-1022 Sideboard shown in our large Catalog No. 35, page 240, is in keeping with the other designs of millwork chosen for this home.

WHERE the kitchen is wanted in the front of the house, or where the lot is not deep, a cottage of this design is particularly suitable. Its unique design also has an appeal, in that it is different.

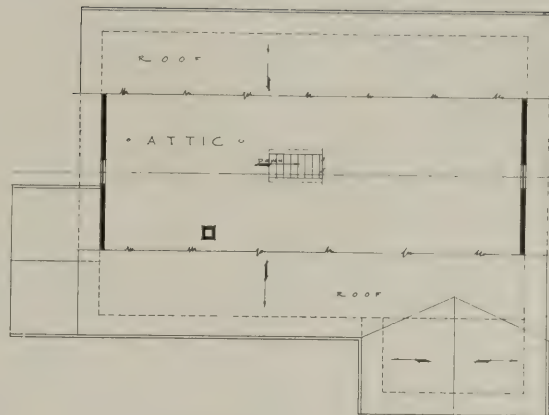
The living room, dining room and kitchen all extend along the front of the building, and the three bedrooms extend along the rear. The bath is conveniently located between the kitchen and the closets adjoining the bedroom on the extreme left.

The dining room, which is furnished with a sideboard, is separated from the living room by an attractive colonnade. This cottage will be appreciated by those who want "something different."

Bungalow 38'-0" x 30'



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-114

MILLWORK RECOMMENDATIONS

Front Door	BW- 314
Rear Door	BW- 216
Interior Doors	BW- 458
Two Light Windows	BW- 710
Interior Trim	BW- 855
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1070
Sideboard (similar)	BW-1022
Colonnade	BW-1154
Ironing Board	BW-1096
Medicine Cabinet	BW-1100

Designs from Catalog No. 35.



BW-1070 Kitchen Cabinet is suggested for use in this kitchen. If a full height cabinet is desired, BW-1068 could substitute. Illustrated on page 259 of our large Catalog No. 35.



BW-116

CHEERFULNESS and comfort are embodied in this story-and-a-half stucco cottage. Screen in the porch—and it makes a most popular “room” during the summer months.

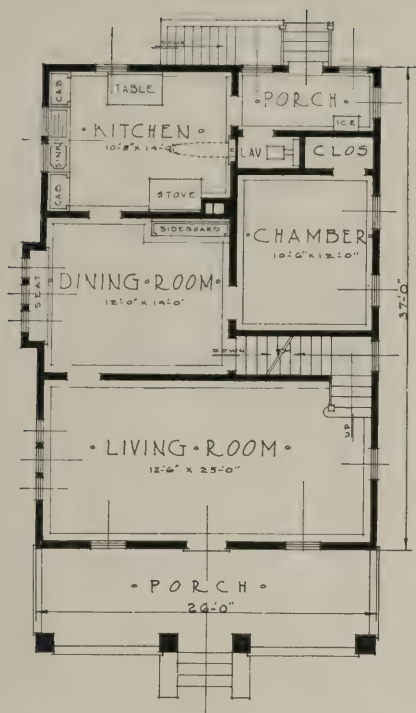
Note the spacious living room with its attractive stairway leading to the well lighted rooms on the floor above. The window seat and artistic sideboard add to the charm of the dining room which opens directly into the kitchen with its time-saving kitchen cabinets, ironing board which folds into the wall, and other conveniences.

As a comfortable, cheerful and “roomy” home—this cottage will fully serve the purpose.

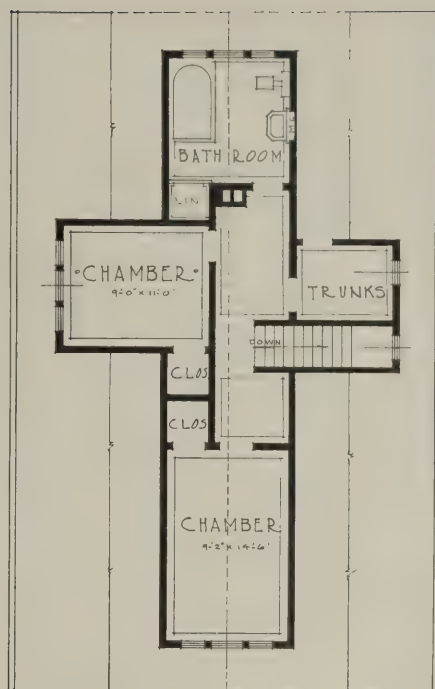
One and One-Half Story 26'-0" x 37'-0"



BW-1030 Sideboard used in the dining room in connection with a Window Seat and a single French Door will provide a very intimate dining room. Design from page 244 of our large Catalog No. 35.



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-116

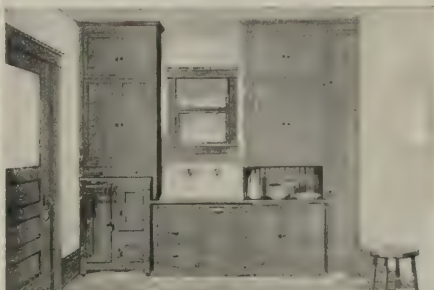
MILLWORK RECOMMENDATIONS

Front Door	BW- 260
Rear Door	BW- 234
Interior Doors	BW- 456
Two Light Windows	BW- 714
Interior Trim	BW- 780
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1094
Sideboard	BW-1030
Medicine Cabinet	BW-1098
Wardrobe	BW-1109
Ironing Board	BW-1096
Window Seat	BW-1140
Stairway (similar).	BW-1334

Designs from Catalog No. 35.



BW-1140 Window Seat from page 281 of our large Catalog No. 35 is the design we recommend for the dining room. For a more complete design, BW-1136 could be substituted.



BW-1094 Kitchen Cabinet with a little different arrangement could be used in this home. The selection is from page 267 of our large Catalog No. 35.



BW-118

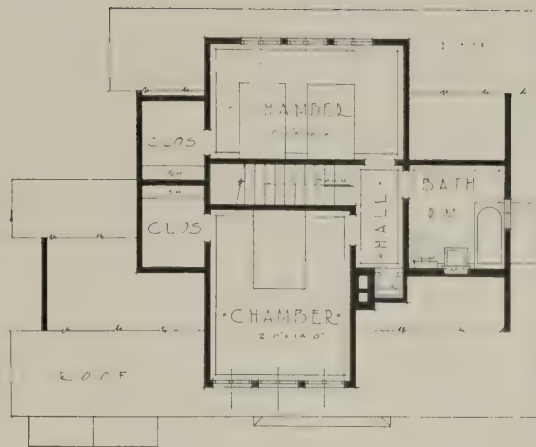
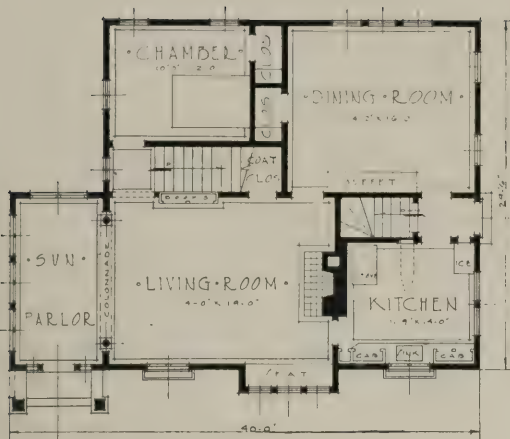


BW-1112 Linen Case here illustrated in white enamel is used in the hall of the second floor. Design is from page 273 of our large Catalog No. 35.

WHEN you enter the inviting doorway of this inexpensive frame cottage, you walk into a sun room separated from the living room by a colonnade. From the sun room you can see the artistic fire-place and mantel of the living room in the background. The bay windows afford a look out from the living room and provide a comfortable window seat. The kitchen windows at the extreme left, just behind the living room and adjoining the dining room which reaches to the rear of the house, with a bedroom to the right.

Two bedrooms, a bath, and roomy closets occupy the second floor of this unusually attractive home, which affords wonderful opportunities.

One and One-Half Story 40'-0" x 29'-6"



BW-118

MILLWORK RECOMMENDATIONS

Front Door	BW- 252
Rear Door	BW- 252
Interior Doors	BW- 460
Interior Trim	BW- 840
Kitchen Cabinet (similar)	BW-1090
Buffet	BW-1054
Mantel	BW-1216
Colonnade	BW-1152
Medicine Cabinet	BW-1098
Linen Case	BW-1112
Ironing Board	BW-1096
Window Seat	BW-1136
Stairway (similar)	BW-1346

Designs from Catalog No. 35.



BW-1054 Buffet, page 253 of our large Catalog No. 35 is very appropriately used in this home. BW-1002 can be substituted if a more elaborate design is desired.



BW-1090 Kitchen Cabinet can very easily be made to conform in size to the space reserved in the kitchen of this dwelling. Design is from page 266 of our large Catalog No. 35.



BW-120



BW-1094 Kitchen Cabinet illustrated on page 267 of our large Catalog No. 35 is recommended, considering the reserve space for the ice box.



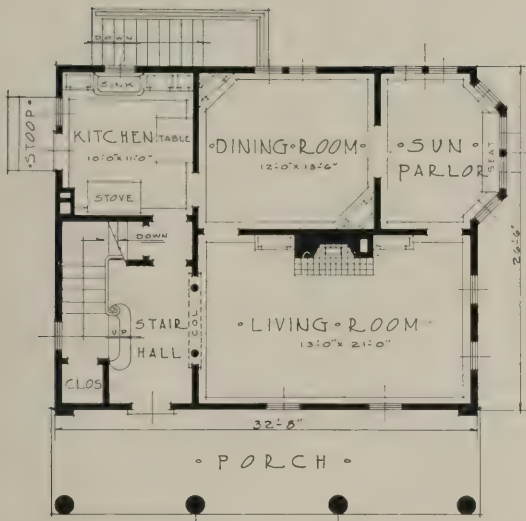
BW-1188 Mantel and Bookcase combination from page 293 of our large Catalog No. 35 is recommended, finished in white enamel, as illustrated

THE columns, a distinctive feature of this two-story frame dwelling, suggest permanence, solidity and security, and are in harmony with its Colonial design and permanent furnishing.

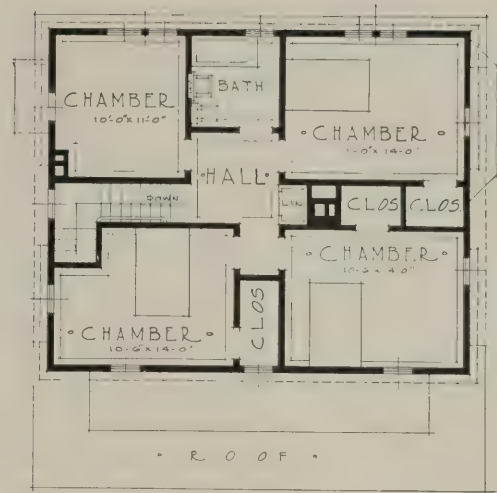
You pass from a large reception hall through a white enamel colonnade into the comfortable living room. A white enamel and mahogany staircase leading from the left of the hall to the bedrooms and bath above, completes a striking effect.

As the plans indicate, this beautiful residence has all the conveniences of a desirable home.

One and One-Half Story 32'-8" x 26'-6"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-120

MILLWORK RECOMMENDATIONS

Front Door	BW- 264
Rear Door	BW- 232
Interior Doors	BW- 462
French Doors	BW- 494
Two Light Windows	BW- 714
Interior Trim	BW- 840
Moulded Cornice	BW- 958
Kitchen Cabinet	BW-1094
Sideboard	BW-1012
Mantel and Bookcase:	BW-1188
Colonnade	BW-1152
Medicine Cabinet	BW-1102
Linen Case	BW-1112
Window Seat	BW-1136
Stairway (similar).	BW-1348

Designs from Catalog No. 35.



BW-1012 Corner Sideboard is suggested in keeping with the use of white enamel finish for the principal rooms of this home. The selection is from page 235 of our large Catalog No. 35.



BW-122

A VERY desirable cottage in stucco and brick veneer—containing more rooms than its exterior indicates.

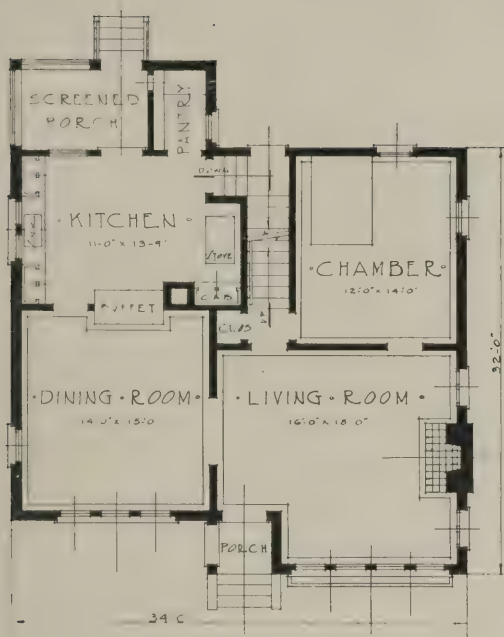
The sun room and living room are united. To the left of this spacious living room—with its decorative mantel—is the dining room which is furnished with a combination sideboard forming a cabinet in the kitchen with an opening into the dining room, through which food may be served.

Considered from every view point—cost, attractiveness and comfort—this cozy home is very desirable.

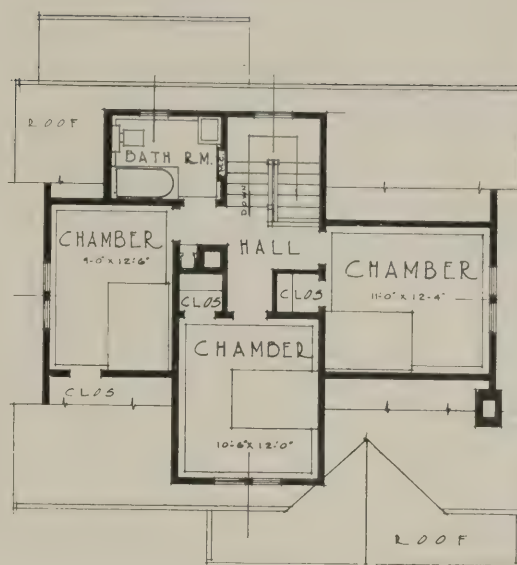
One and One-Half Story 34'-0" x 32'-0"



BW-400 French Doors are in complete harmony with the balance of the designs, and are recommended for this home. Design shown on page 100 of our large Catalog No. 35.



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

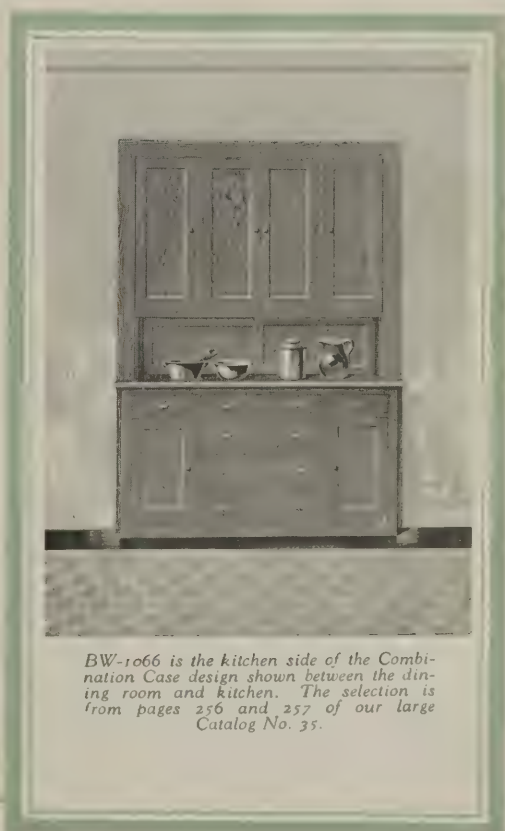
BW-122

BEST
BUILDING
MATERIALS

MILLWORK RECOMMENDATIONS

Front Door	BW- 290
Rear Door	BW- 232
Grade Door	BW- 232
Interior Doors	BW- 456
French Doors	BW- 490
Interior Trim	BW- 840
Moulded Cornice	BW- 960
Wall Paneling	BW- 980
Kitchen Cabinet (similar)	BW-1092
Combination Case	BW-1066
Mantel Shelf	BW-1208
Bath Room Case	BW-1106

Designs from Catalog No. 35.



BW-1066 is the kitchen side of the Combination Case design shown between the dining room and kitchen. The selection is from pages 256 and 257 of our large Catalog No. 35.



BW-124



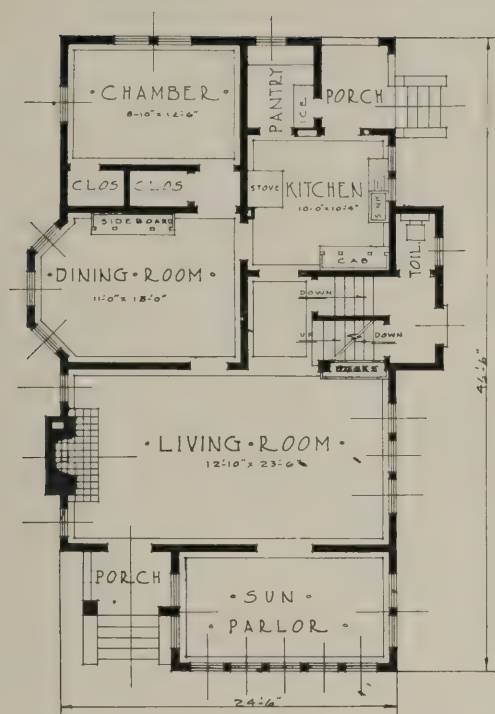
BW-1036 Sideboard is a very attractive design and in keeping with the balance of the millwork recommended for this home. Illustration from page 247 of our large Catalog No. 35.

COMPACTNESS is the outstanding feature of this pretty stucco and brick cottage with its artistically appropriate sun parlor.

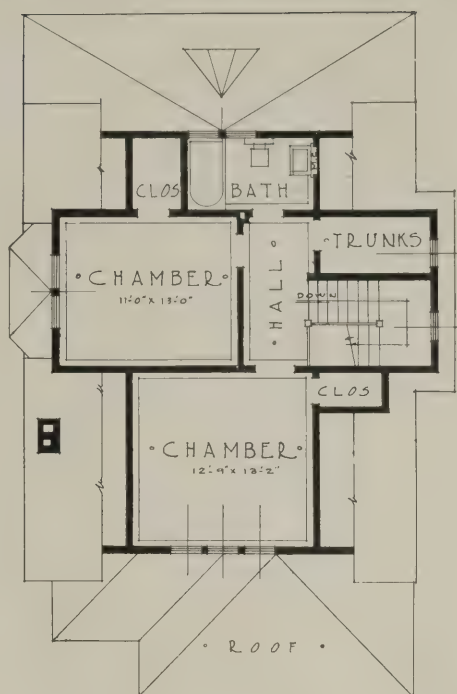
Notice the compact arrangement of the pantry, rear porch, kitchen and hallway, and the many conveniences for making housework lighter, such as the kitchen cabinet, the ice box which may be filled from the outside, and the grade entrance leading to the hallway.

Observe the arrangement of the living, dining, and bedrooms on the first floor, and the two bedrooms, bath, and trunk or sewing room on the second floor.

One and One-Half Story 24'-6" x 46'-6"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-124

MILLWORK RECOMMENDATIONS

Front Door	BW- 254
Rear Door	BW- 234
Grade Door	BW- 234
Interior Doors	BW- 452
French Doors	BW- 490
Two Light Windows	BW- 710
Interior Trim	BW- 780
Kitchen Cabinet	BW-1068
Sideboard	BW-1036
Mantel Shelf	BW-1202
Medicine Cabinet	BW-1098
Ironing Board	BW-1096
Stairway (similar)	BW-1346

Designs from Catalog No. 35.



BW-490 French Doors make a very attractive entrance to a cozy sun parlor. Selected from page 100 of our large Catalog No. 35.



BW-126



BW-1108 Wardrobe used a few steps from the living room in the hallway will be found very convenient. Illustration from page 271 of our large Catalog No. 35.

If your need is a home of relatively small cost, housing many bedrooms, this attractive story-and-a-half frame cottage will supply it—for it contains two bedrooms on the first floor and three on the second.

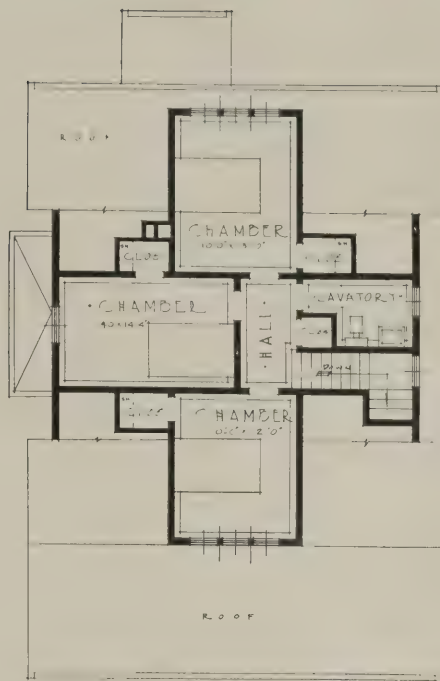
It is just the home for a large family—or for a family enjoying the merry company of week-end guests. It is not essential that all the bedrooms be used for sleeping quarters, as the room opposite the cozy living room will make an ideal library or den, and one of the upper bedrooms may be used as a sewing room.

This cottage has many features which delight the lover of congenial surroundings.

One and One-Half Story 30'-0" x 36'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-126

BEST WALL
PAPER CO.

MILLWORK RECOMMENDATIONS

Front Door	BW- 254
Rear Door	BW- 216
Interior Doors	BW- 452
Two Light Windows	BW- 710
Interior Trim	BW- 750
Kitchen Cabinet	BW-1068
Buffet (similar)	BW-1060
Medicine Cabinet	BW-1098
Wardrobe	BW-1108
Stair Newel	BW-1230
Stair Rail	BW-1298
Stair Baluster	BW-1274

Designs from Catalog No. 35.



BW-1068 Kitchen Cabinet is from page 258 of our large Catalog No. 35. If a ceiling height cabinet is desired, BW-1070 could be substituted.



BW-128



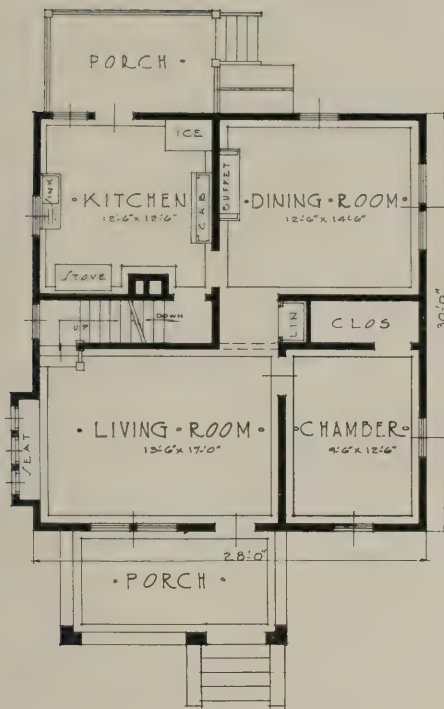
BW-1070 Kitchen Cabinet is recommended although a long cabinet could be used on the opposite wall if desired. Illustration from page 259 of our large Catalog No. 35.

THIS unpretentious, cozy, stucco cottage will give you a comfortable, neat appearing home for a comparatively small appropriation. It is specially designed for economy.

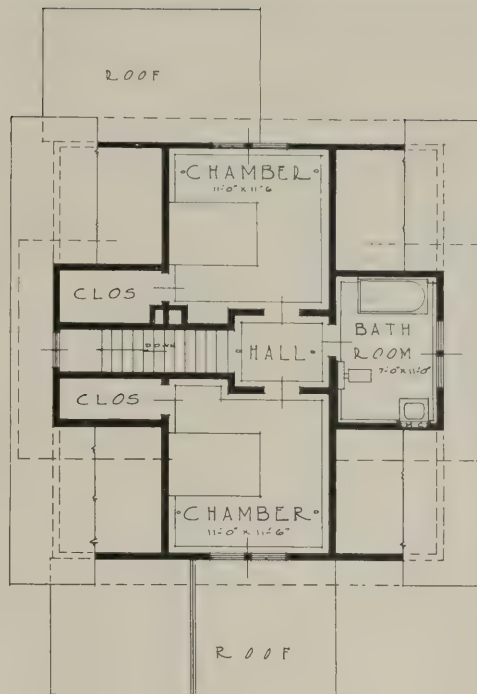
The absence of "frills" is noticeable but all the conveniences of the modern home are present—a laundry, vegetable cellar, kitchen cabinet, linen case, large closets, buffet, a large bath, and many other items which endear a home to its owner.

The attractive front porch leads into the living room which is provided with a window seat. This is an ideal home of economical construction.

One and One-Half Story 28'-0" x 30'-0"



• FIRST • FLOOR • PLAN •



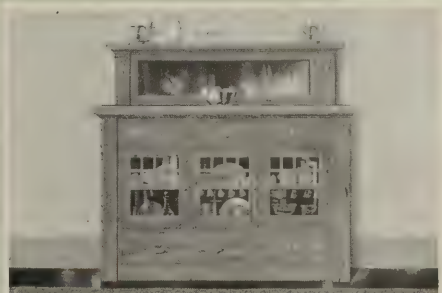
• SECOND • FLOOR • PLAN •

BW-128

MILLWORK RECOMMENDATIONS

Front Door	BW- 274
Rear Door	BW- 214
Interior Doors	BW- 450
Two Light Windows	BW- 710
Interior Trim	BW- 780
Kitchen Cabinet	BW-1070
Buffet	BW-1050
Medicine Cabinet	BW-1098
Wardrobe	BW-1108
Window Seat	BW-1140
Stair Newel	BW-1246
Stair Rail	BW-1304
Stair Baluster	BW-1266

Designs from Catalog No. 35.



BW-1050 Buffet represents an attractive, economical convenience for the dining room. Design shown on page 252 of our large Catalog No. 35.



BW-1140 Window Seat will add considerably in making this a very attractive room. The selection is from page 281 of our large Catalog No. 35.



BW-130

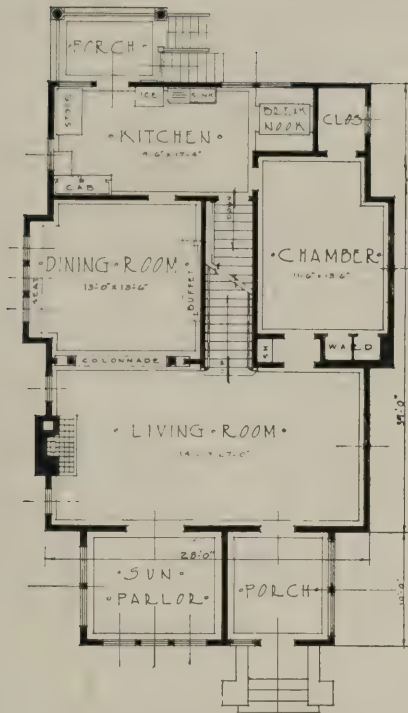


BW-1136 Window Seat, such as we have placed here, adds comfort wherever it is used. Illustrated in our large Catalog No. 35 on page 280.

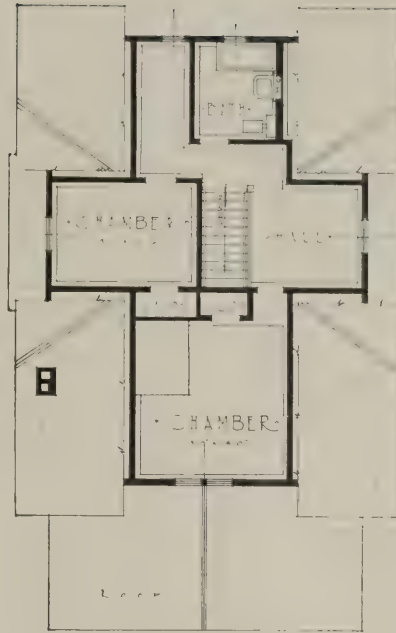
HERE we present a charming frame cottage, reasonable in cost, equipped with numerous built-in furnishings of special design that delight the housekeeper.

There is a cozy breakfast nook on the kitchen which may be used at any meal when quick or light service is desired. A rear porch of good size leads into the kitchen which has a roomy cabinet, an ironing table which folds into the wall and an ice box which may be filled from the porch. Bath, bedrooms and closets conveniently arranged on the second floor of this unusually attractive home.

One and One-Half Story 28'-0" x 39'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-130

MILLWORK RECOMMENDATIONS

Front Door	BW- 234
Rear Door	BW- 234
Interior Doors	BW- 456
French Doors	BW- 494
Two Light Windows	BW- 714
Interior Trim	BW- 810
Beam Ceiling	BW- 950
Kitchen Cabinet	BW-1076
Buffet	BW-1052
Mantel	BW-1200
Colonnade	BW-1160
Medicine Cabinet	BW-1098
Wardrobes	BW-1108 and 1109
Ironing Board	BW-1096
Breakfast Nook	BW-1116
Window Seat	BW-1136

Designs from Catalog No. 35.



BW-1052 Buffet opposite the window seat completes a very attractive arrangement for the dining room. Design from page 252 of our large Catalog No. 35.



BW-1160 Colonnade is the design we recommend for this dwelling. Its lines are in keeping with the balance of the millwork. The selection is from page 285 of our large Catalog No. 35.



BW-132



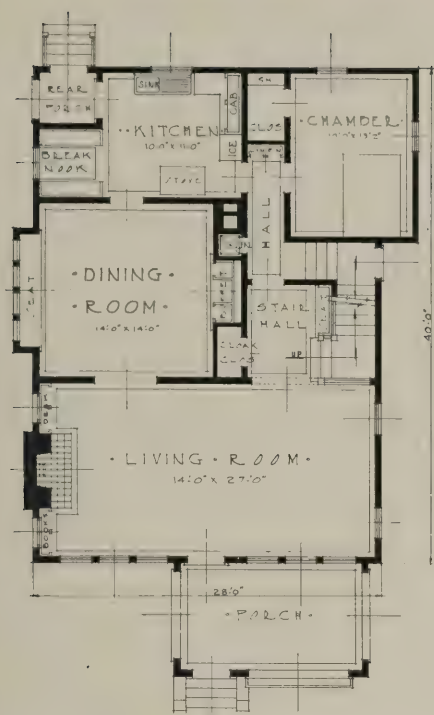
BW-1136 Window Seat is recommended for use opposite the Buffet in the dining room. These two pieces suggest a very effective arrangement. Design from page 280 of our large Catalog No. 35.

REGARDLESS of the angle from which you view this beautiful stucco home, you are impressed with its graceful lines—lines that radiate warmth, coziness and welcome.

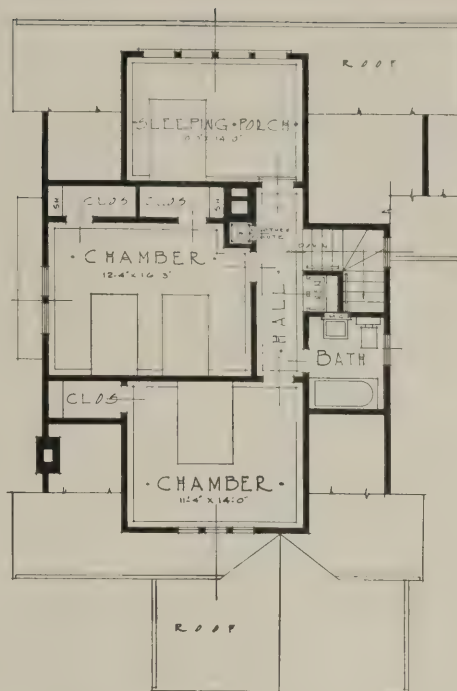
When you enter you discover that everything promised by its exterior has been fulfilled. The rooms are large and bright and cheerful, and their charm is augmented by beautiful built-in furnishings, such as a mantel, stairway, and window seats. A seat in the hallway is an added convenience. The first floor bedroom may be used for a den or a library.

There are many conveniences to lighten household duties, such as a linen chute, cases, and large closets.

One and One-Half Story 28'-0" x 40'-0"



..FIRST FLOOR PLAN..



..SECOND FLOOR PLAN..

BW-132

MILLWORK RECOMMENDATIONS

Front Door	BW- 226
Rear Door	BW- 232
Interior Doors	BW- 462
French Doors	BW- 484
Two Light Windows	BW- 710
Interior Trim	BW- 855
Mantel and Bookcase	BW-1182
Kitchen Cabinet	BW-1076
Buffet	BW-1060
Linen Case	BW-1112
Medicine Cabinet	BW-1098
Breakfast Nook	BW-1114
Window Seat	BW-1136
Stairway (similar)	BW-1338

Designs from Catalog No. 35.



BW-1076 Kitchen Cabinet selected from page 262 of our large Catalog No. 35. The extra counter space will be very handy at the right of the sink.



BW-134



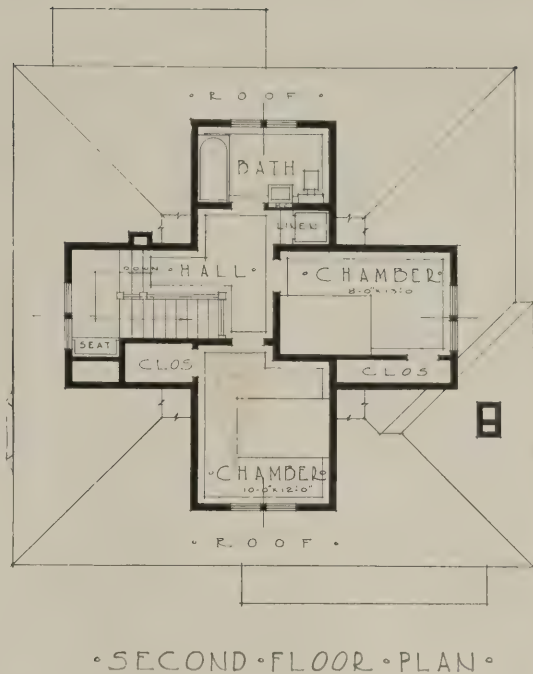
BW-1028 Sideboard is recommended; although a Buffet could be used on the opposite wall if desired. Illustrated from page 243 of our large Catalog No. 35.

THE design of this solidly built brick residence makes it pleasing in appearance and in every way agreeable. In size it is small and compact, measuring only 34 by 33 feet.

A hallway separates the rooms from the kitchen, making it impossible for kitchen odors to reach other parts of the house. The sun parlor is a part of the spacious living room where there is placed an attractive mantel.

In addition to many conveniences there is a grade entrance at the left, also an extra toilet. The bedroom on the first floor may be used as a library, as two bedrooms and a bath are provided on the second floor.

One and One-Half Story 34'-6" x 33'-0"



BW-134

MILLWORK RECOMMENDATIONS

Front Door	BW- 312
Rear Door	BW- 218
Grade Door	BW- 218
Interior Doors	BW- 450
Two Light Windows	BW- 714
Interior Trim	BW- 840
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1070
Sideboard (similar)	BW-1028
Mantel Shelf	BW-1182
Medicine Case	BW-1098
Bath Room Cabinet	BW-1104
Wardrobe	BW-1109
Ironing Board	BW-1096

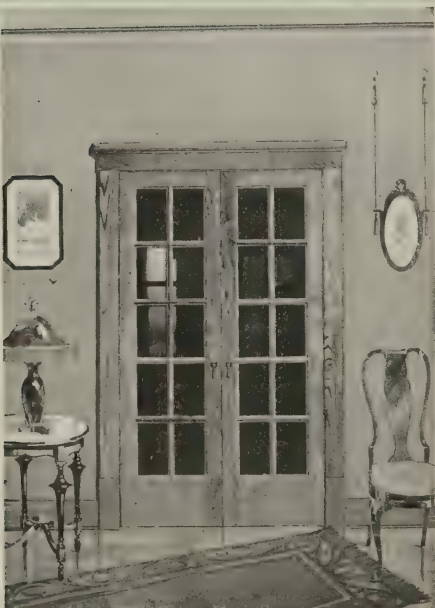
Designs from Catalog No. 35.



BW-1109 Wardrobe used in the hallway of the second floor will be found a welcome convenience. It is a part of the illustration on page 271 of our large Catalog No. 35.



BW-136



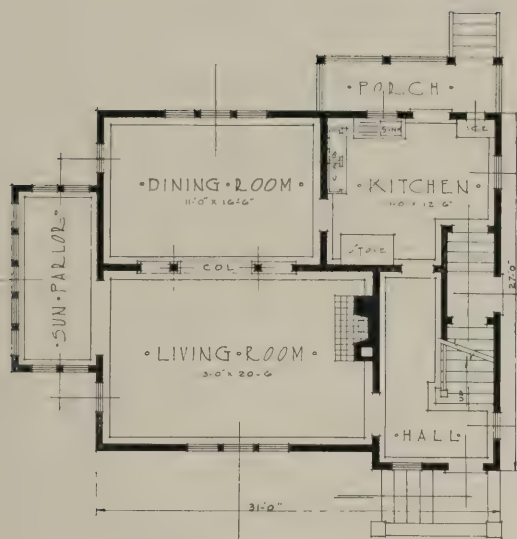
BW-482 French Doors will present the most pleasing effect leading from the living room to the sun parlor. Illustration is from our large Catalog No. 35, page 96.

THE half-timber effect in the gables of this stucco home is a noticeable feature. A large sun parlor provided with nine windows, opens into the living room through doors of handsome French design. The beams on the ceiling of the living room, with its fire-place and mantel, give it an atmosphere of coziness.

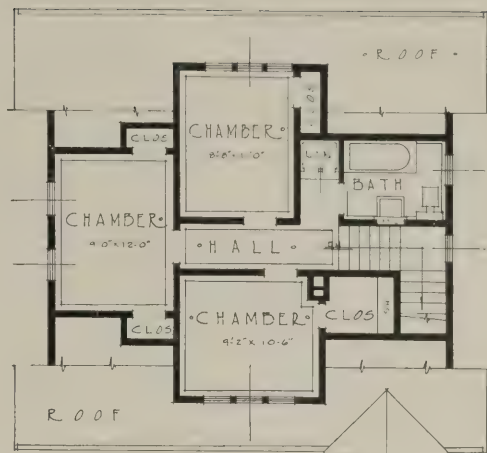
An artistic colonnade fittingly separates the living room from the dining room. The kitchen has a large cabinet, without which no kitchen is complete, and an ironing board which folds into the wall, among other conveniences which lighten housework.

Three light bedrooms, a bath, linen case and closets are provided on the second floor. In general this pretty home will satisfy every want.

Two Story 31'-0" x 27'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-136

MILITARY RECOMMENDATIONS

Front Door	BW- 308
Rear Door	BW- 218
Grade Door	BW- 218
Interior Doors	BW- 460
French Doors	BW- 482
Interior Trim	BW- 780
Beam Ceiling	BW- 954
Wall Paneling	BW- 982
Kitchen Cabinet	BW-1070
Mantel Shelf	BW-1204
Colonnade	BW-1174
Medicine Cabinet	BW-1096
Linen Case	BW-1112
Stairway (similar)	BW-1336

Designs from Catalog No. 35.



BW-1070 Kitchen Cabinet is our selection for this home. If a full ceiling height cabinet is not desired, BW-1068 can be substituted. The design recommended is from page 259 of our large Catalog No. 35.



BW-138



BW-1030 Sideboard with its leaded glass doors would be in keeping with most any design of window. Design shown on page 244 of our large Catalog No. 35.

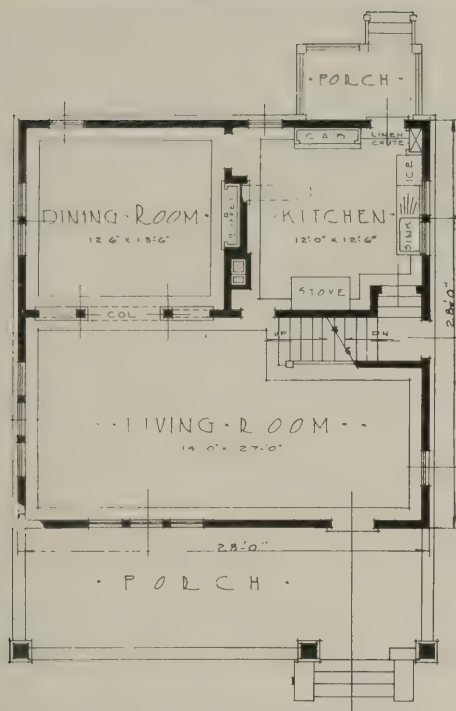
FOR persons desiring a very substantial, well built residence with plenty of room, this stucco and brick residence is most fitting. It has a large porch on which the whole family—and many friends as well—can comfortably gather.

Needless to say this dwelling has built-in furnishings in keeping with its quality and proportions. The paneled dining room has a beautiful sideboard—adjoining a spacious living room.

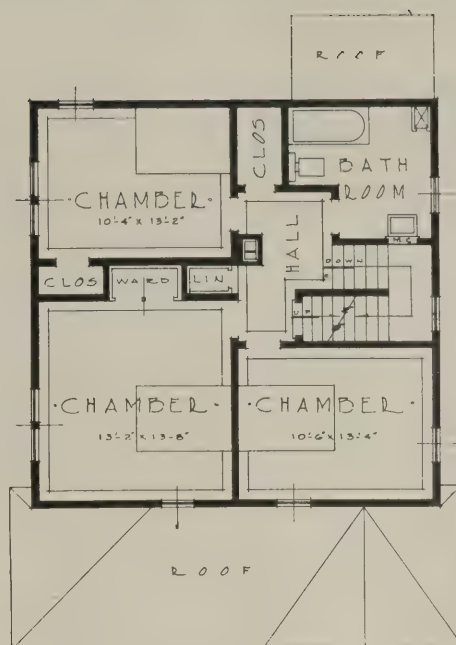
As the plans indicate, this residence is also equipped with time and labor saving innovations, of which we will mention only the linen chute.

The family in this home is insured absolute satisfaction.

Two Story 28'-0" x 28'-0"



• FIRST FLOOR PLAN •



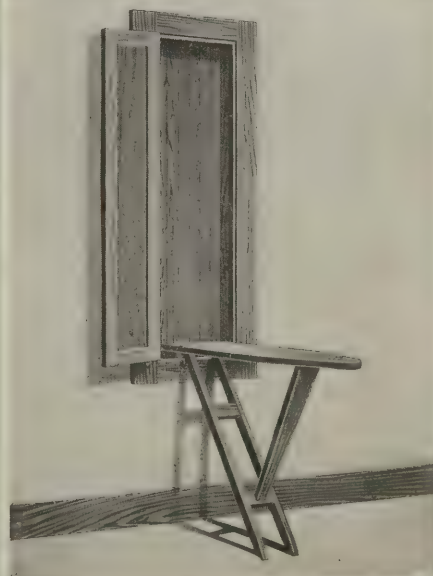
• SECOND FLOOR PLAN •

BW-138

MILLWORK RECOMMENDATIONS

Front Door	BW- 258
Rear Door	BW- 214
Grade Door	BW- 214
Interior Doors	BW- 458
Two Light Windows	BW- 710
Interior Trim	BW- 840
Moulded Cornice	BW- 958
Wall Paneling	BW- 980
Kitchen Cabinet	BW-1070
Sideboard	BW-1030
Colonnade	BW-1174
Medicine Case	BW-1100
Linen Case	BW-1112
Ironing Board	BW-1096
Stairway (similar).	BW-1338

Designs from Catalog No. 35.



BW-1096 Ironing Board is a convenience that is welcome in any household. Selected from page 268 of our large Catalog No. 35.



BW-140



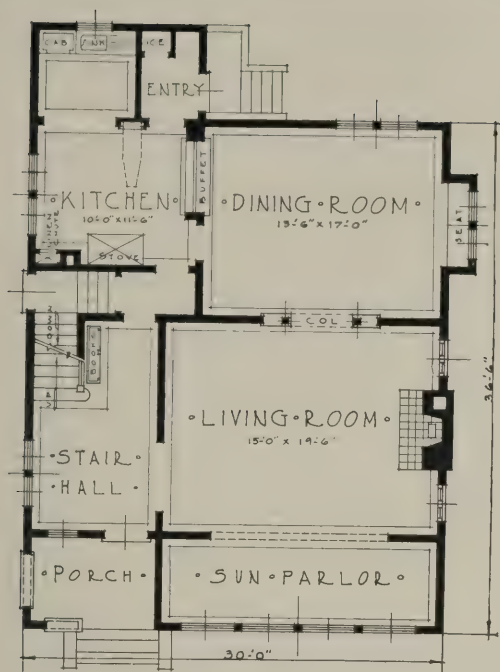
BW-1066 Combination Case is used between the kitchen and dining room. The above illustration is the dining room side. Design from pages 256 and 257 of our large Catalog No. 35

THE design of this two-story stucco residence enables you to build at a reasonable price although it is more elaborate than some of the other homes described in this book.

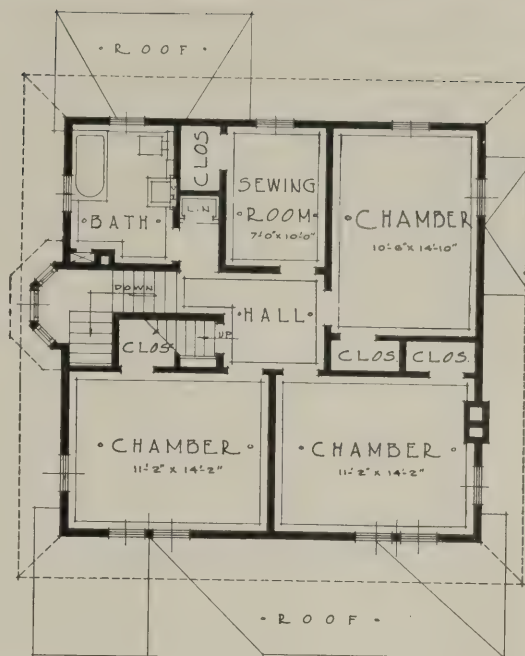
In addition to a large sun parlor, it has an open porch. An artistic colonnade separates the living room from the dining room, and French doors connect it with a spacious hallway.

A feature of the dining room with its cozy window seat is the combination sideboard which forms a cabinet on the kitchen side. Service is thus established from the kitchen into the dining room—saving much time and energy. The many comforts and conveniences of this home make it everything anyone could wish it to be.

Two Story 30'-0" x 36'-6"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-140

MILLWORK RECOMMENDATIONS

Front Door	BW- 304
Rear Door	BW- 218
Grade Door	BW- 218
Interior Doors	BW- 460
French Doors	BW- 484
Two Light Windows	BW- 714
Interior Trim	BW- 855
Sideboard	BW-1066
Mantel Shelf	BW-1202
Medicine Cabinet	BW-1100
Linen Case	BW-1112
Ironing Board	BW-1096
Window Seat	BW-1140
Stair Newel	BW-1230
Stair Rail	BW-1298
Stair Baluster	BW-1274

Designs from Catalog No. 35.



BW-1112 Linen Case has been placed in a convenient location in the hallway of the second floor. Design from page 273 of our large Catalog No. 35.



BW-142



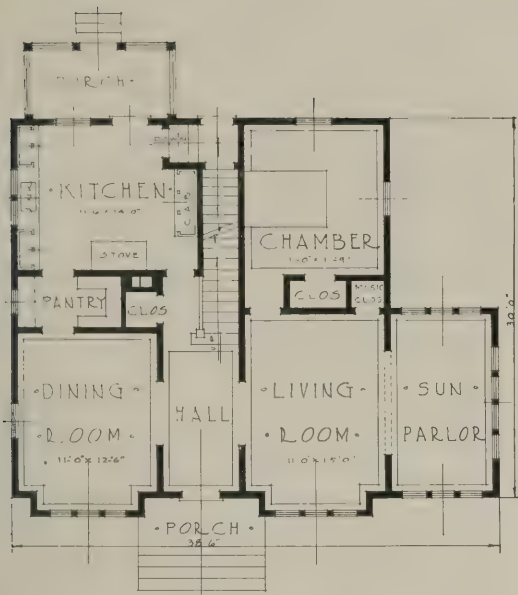
BW-484 French Doors from page 97 of our large Catalog No. 33, used on both sides of the large entrance hall make a very complete picture as you enter this home.

THIS is a typical, modern American home of square design. Its lines are softened by the special arched hood over the entrance, and the remarkable bay window effect. A sun parlor—which many owners refuse to be without—is at the right. The rear porch is screened, assuring additional comfort during the summer months.

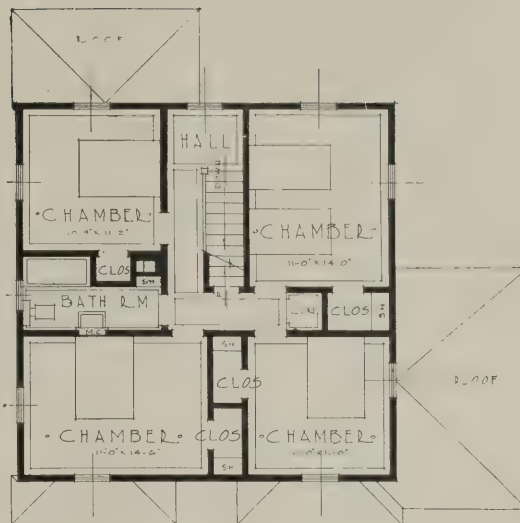
There is a long hallway from which an artistic stairway leads to the second floor with its four bedrooms, bath and many spacious closets.

A window seat is provided for in the living room, and there is ample provision for a mantel, fire-place or bookcases, as well as a sideboard or a buffet for the dining room, if desired.

Two Story 28'-6" x 30'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-142

MILLWORK RECOMMENDATIONS

Front Door	BW- 260
Rear Door	BW- 214
Grade Door	BW- 214
Interior Doors	BW- 450
French Doors	BW- 484
Two Light Windows	BW- 720
Interior Trim	BW- 780
Moulded Cornice	BW- 954
Kitchen Cabinet (similar)	BW-1092 and 1068
Medicine Cabinet	BW-1098
Wardrobe	BW-1109
Window Seat	BW-1136
Stairway (similar)	BW-1338

Designs from Catalog No. 35.



BW-1136 Window Seat is indicated only for use in the living room but can equally as well be used in the dining room. Selection is from page 280 of our large Catalog No. 35.



BW-144



BW-484 French Doors are recommended for use between the living and dining rooms. The selection is from page 97 of our large Catalog No. 35.

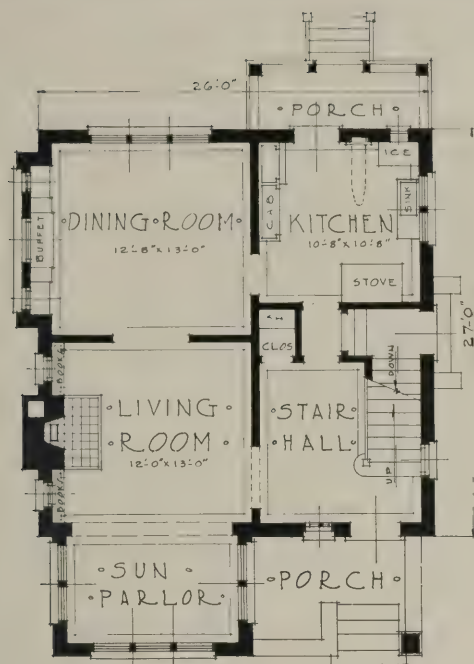
It is an old saying that a man's home is his castle, and we here present a "castle" that offers security, comfort and contentment.

This two-story brick veneer residence is well equipped with numerous labor-saving devices, and contains many built-in furnishings, a source of delight, both utility and decorative qualities considered.

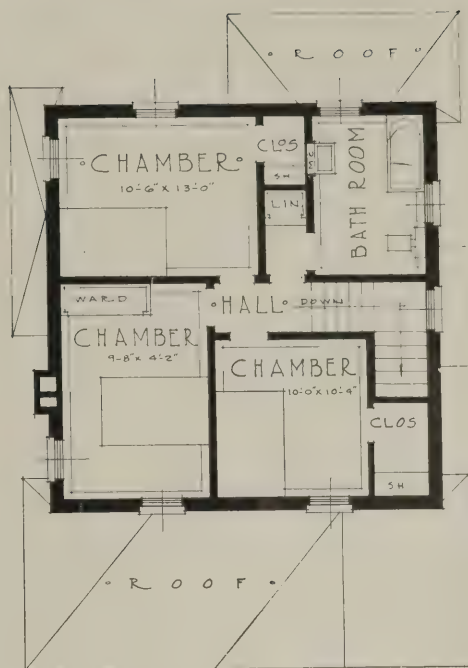
The rooms in general are large, well lighted and airy—and so located as to best serve their intended purposes.

The many attractive features incorporated make this home a castle that any owner can take just pride in possessing.

Two Story 26'-0" x 27'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-144

MILLWORK RECOMMENDATIONS

Front Door	BW- 256
Rear Door	BW- 232
Grade Door	BW- 232
Interior Doors	BW- 458
French Doors	BW- 484
Two Light Windows	BW- 710
Interior Trim	BW- 855
Moulded Cornice (dining room)	BW- 962
Wall paneling (dining room)	BW- 978
Kitchen Cabinet (similar)	BW-1094
Buffet (similar)	BW-1064
Mantel and Bookcase	BW-1186
Linen Case	BW-1112
Medicine Cabinet	BW-1100
Stairway (similar)	BW-1334

Designs from Catalog No. 35.



BW-1064 Buffet with sash permitting an exterior view. Illustration from our large Catalog No. 35, illustrated on page 255.



BW-1186 Mantel and Bookcase combination provides a world of coziness to this home. Design shown on page 293 of our large Catalog No. 35.



BW-146



BW-1054 Buffet—the mouldings and division of doors are in keeping with the other millwork. The selection is from page 253 of our large Catalog No. 35.



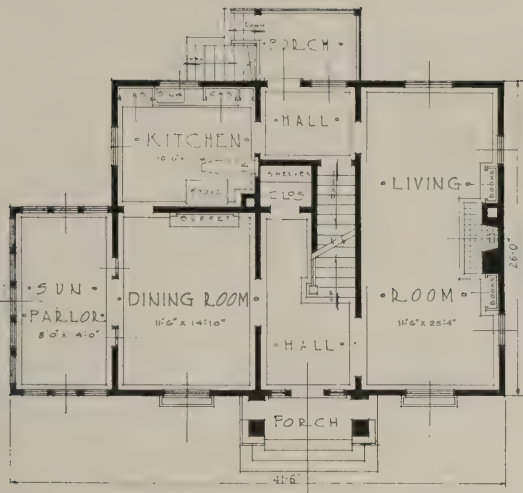
BW-1004 Kitchen Cabinet with the side sections reversed is the selection for use in the kitchen of this home. The design is on page 267 of our large Catalog No. 35.

A SUBSTANTIAL stucco home suggesting American sturdiness. The living room extends over the entire length of the house and is furnished with a built-in mantel and bookcase suited to its spaciousness. To the left of the large hallway is the dining room which is equipped with an appropriate buffet. To the left of the dining room is the sun parlor—a delightful place to rest after meals.

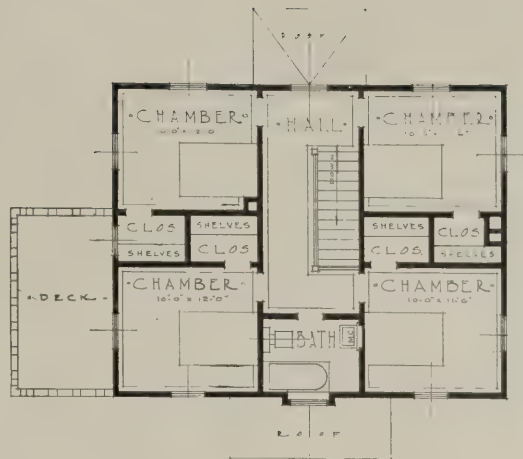
The bright kitchen has various built-in conveniences to lighten house-work. The window arrangement of this dwelling insures light, airy rooms on the first floor as well as on the second floor with its four bedrooms, closets and bath.

This is truly a substantial home.

Two Story 41'-6" x 26'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-146

MILLWORK RECOMMENDATIONS

Front Entrance	BW- 414
Rear Door	BW- 232
Interior Doors	BW- 462
French Doors	BW- 482
Two Light Windows	BW- 714
Interior Trim	BW- 840
Beam Ceiling	BW- 954
Buffet	BW-1054
Kitchen Cabinet (similar)	BW-1094
Mantel and Bookcase	BW-1186
Medicine Cabinet	BW-1102
Ironing Board	BW-1096
Stairway (similar)	BW-1338

Designs from Catalog No. 35.



BW-482 French Doors on either side of the hall as we enter with the stairway for a background offer a most pleasing effect. Illustration is from our large Catalog No. 35 on page 96.



BW-148



BW-1074—this neat appearing kitchen cabinet is a part of the very convenient kitchen. Selection is from page 261 of our large Catalog No. 35.

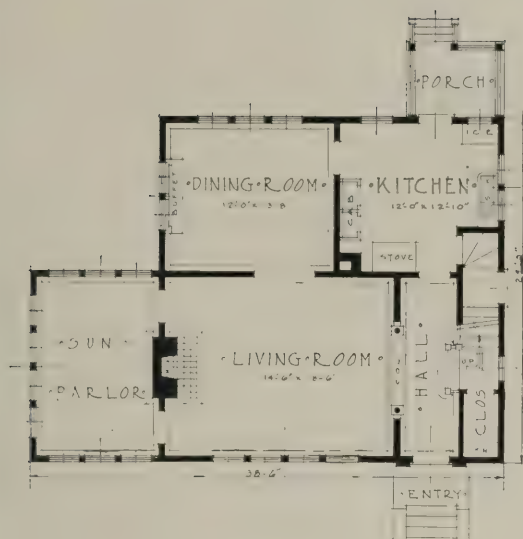
THE artistic entrance to this home of stucco and frame gives just enough relief to the dignity of its lines to accentuate its beautiful simplicity.

It has a spacious reception hall with a beautiful staircase. The large living room with its fire-place and mantel has two entrances leading into the roomy sun parlor—which has eight windows.

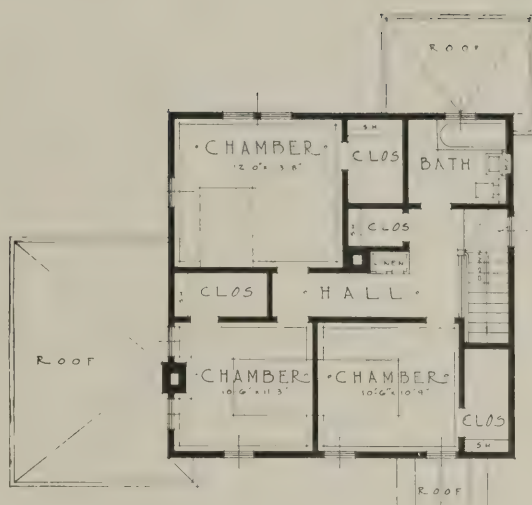
The rear porch is screened—and leads to the perfectly equipped kitchen which has many labor-saving devices dear to the housekeeper. On the second floor three large bedrooms, a bath, a linen case, and other conveniences complete a well designed home.

This home can be built at a surprisingly low cost.

Two Story 38'-6" x 28'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-148

MILLWORK

RECOMMENDATIONS

Front Door	BW- 234
Rear Door	BW- 234
Grade Door	BW- 234
Interior Doors	BW- 456
French Doors	BW- 484
Two Light Windows	BW- 710
Interior Trim	BW- 840
Moulded Cornice	BW- 960
Wall Paneling	BW- 980
Kitchen Cabinet (similar)	BW-1074
Buffet (similar)	BW-1002
Mantel	BW-1212
Colonnade	BW-1152
Medicine Cabinet	BW-1100
Linen Case	BW-1114
Stairway (similar)	BW-1334

Designs from Catalog No. 35.



BW-1212 Mantel illustrated on page 208 of our large Catalog No. 35 should be the selection for this home if the living room is finished in white enamel.



BW-1152 Colonnade, as in the case of the Mantel, is only recommended if the living room is finished in white enamel. Design is from page 283 of our large Catalog No. 35.



BW-150



BW-1112 Linen Case placed in the hallway of the second floor where its convenience will be appreciated. The selection is from page 273 of our large Catalog No. 35.

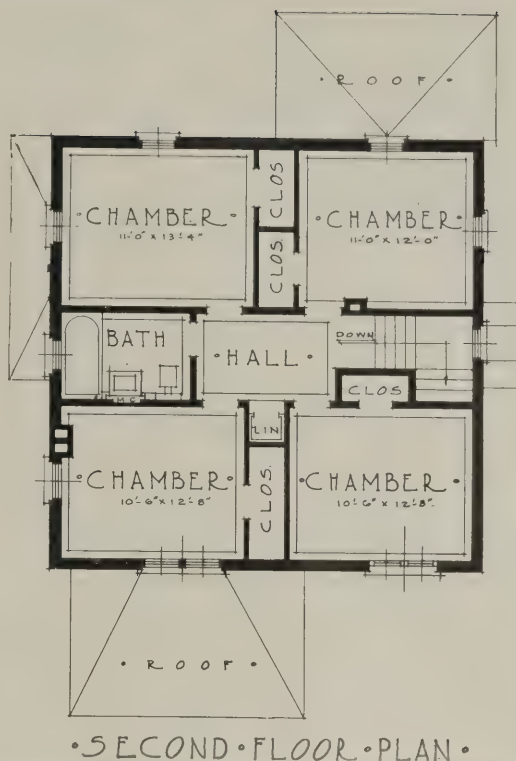
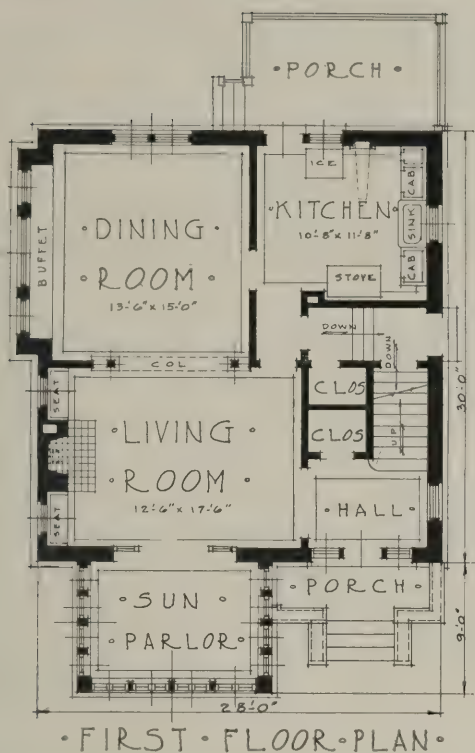
SOLIDITY is the outstanding feature of this residence, built with walls of solid brick. Its substantial qualities are reflected in its lines, which are suggestive of permanence. This design is a very attractive home, one built to endure.

All rooms are large and airy, and the sun parlor, which has twelve windows, is separated from the living room by beautiful French doors. The mantel in the living room and the buffet in the dining room are of the most artistic design.

There are four well lighted bedrooms on the second floor, all of comfortable size with roomy closets, and a hallway leads into the bath room.

This house will serve a large family for many generations.

Two Story 28'-0" x 30'-0"



BW-150

MILLWORK RECOMMENDATIONS

Front Entrance	BW- 406
Rear Door	BW- 234
Grade Door	BW- 234
Interior Doors	BW- 462
Two Light Windows	BW- 710
Interior Trim	BW- 855
Moulding Cornice	BW- 958
Kitchen Cabinet (similar)	BW-1090
Buffet	BW-1064
Mantel Shelf	BW-1206
Colonnade	BW-1160
Medicine Cabinet	BW-1100
Linen Case	BW-1112

Designs from Catalog No. 35.



BW-1160 Colonnade represents the design we have chosen for this home. Illustration from our large Catalog No. 35 on page 285.



BW-1090 Kitchen Cabinet is one of the many conveniences that make this home complete. Design shown on page 266 of our large Catalog No. 35.



BW-152



BW-1220 Mantel is the key to the clever arrangement for the spacious living room. Illustration from page 300 of our large Catalog No. 35.

HERE is a Dutch Colonial semi-stucco home with pleasing lines and utility in all essentials.

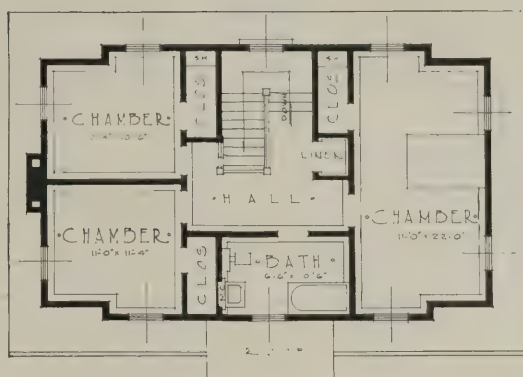
The large, bright dining room is elaborately paneled. The living room, which extends through the length of the house, has windows on three sides, and features a beautiful mantel in white enamel. As you enter the hallway the graceful lines of the white enamel and mahogany staircase also attract special attention.

The design of this home yields exceptional space on the second floor where one bedroom is as long as the house, the others, though smaller, are as large as average.

Two Story 40'-0" x 22'-6"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-152

MILLWORK RECOMMENDATIONS

Front Entrance	BW- 420
Rear Door	BW- 232
Interior Doors	BW- 466
French Doors	BW- 484
Two Light Windows	BW- 710
Interior Trim	BW- 840
Moulded Cornice	BW- 964
Wall Paneling (dining room)	BW- 984
Kitchen Cabinet	BW-1076
Buffet (similar)	BW-1002
Mantel Shelf	BW-1220
Medicine Cabinet	BW-1098
Ironing Board	BW-1096
Linen Case	BW-1112
Stair Rail (similar)	BW-1300

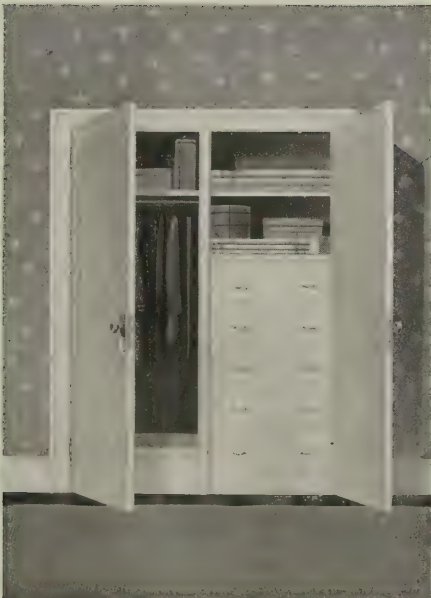
Designs from Catalog No. 35.



BW-1002 Buffet with its graceful lines is suggested for use in the dining room. Design from page 230 of our large Catalog No. 35.



BW-154



BW-1108 and BW-1109 Wardrobes help make these apartments popular for their closet space. Illustration is from page 271 of our large Catalog No. 35.

A FRAME two flat residence of an unusually practical design which may be built at a surprisingly reasonable cost.

Each apartment has five conveniently arranged rooms—a living room, two bedrooms, a kitchen, roomy closets, bath, pantry, wardrobe, medicine case, and kitchen cabinet. Notice the large built-in Colonial sideboard and the combination mantel and bookcase.

There is a separate storage room, coal bin, laundry, and furnace in the basement for each apartment.

This very practical building will furnish comfortably, delightful and convenient homes for two families.

Two Flat 33'-0" x 38'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-154

MILLWORK

RECOMMENDATIONS

Entrance	BW- 420
Rear Door	BW- 248
Interior Doors	BW- 458
Interior Trim	BW- 855
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1076
Buffet (similar)	BW-1004
Mantel and Bookcase	BW-1196
Medicine Cabinet	BW-1100
Wardrobes	BW-1108 and 1109
Stair Newel	BW-1330
Stair Rail	BW-1296
Stair Baluster	BW-1268

Designs from Catalog No. 35.



BW-1004 Buffet is recommended for the dining room, and its use is assurance of satisfaction. The selection is from page 231 of our large Catalog No. 35.



BW-156

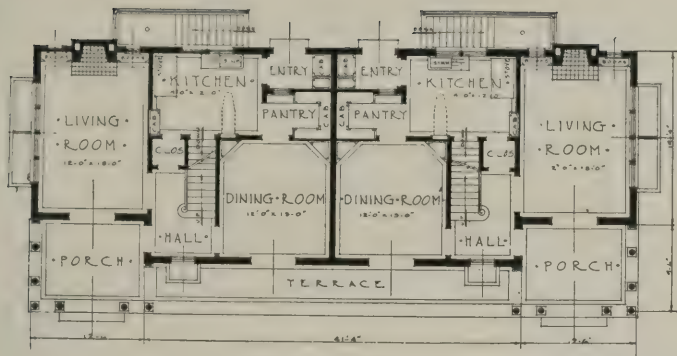


BW-1109 Wardrobe used in the bath room will be found very convenient for linens. Design is from page 271 of our large Catalog No. 35.

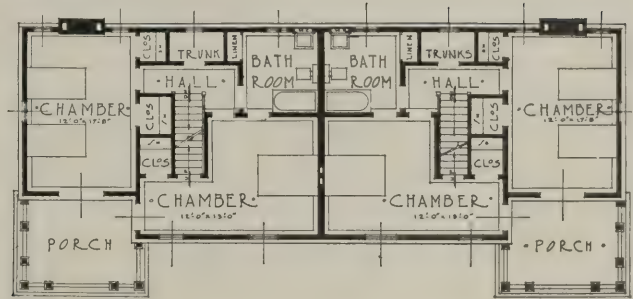
THIS beautiful duplex of semi-Colonial style is difficult to match in effectiveness, and convenience of plan layout. It is made of stucco and brick veneer. The latticed porches on either end form verandas accessible from the second floor.

This design has many built-in conveniences. Separate furnaces, laundries, coal bins, and store rooms are provided for each family. In reality, it is two separate and complete houses united in one. The arrangement makes it possible to obtain an elaborate and artistic effect with a great saving in cost of construction, as this building can be erected for a lower figure than its appearance would indicate.

Duplex 66'-4" x 24'-0"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-156

MILLWORK

RECOMMENDATIONS

Front Door	BW- 292
Rear Door	BW- 214
Interior Doors	BW- 458
French Doors	BW- 482
Trim	BW- 780
Sideboard (similar)	BW-1010
Mantel and Bookcase	BW-1192
Kitchen Cabinet (similar)	BW-1068
Medicine Cabinet	BW-1098
Linen Case	BW-1109
Ironing Board	BW-1096
Stairway (similar)	BW-1348

Designs from Catalog No. 35.



BW-1010 Colonial Sideboards are our recommendation for use in the dining room. Illustrations from our large Catalog No. 35, page 234.



BW-158



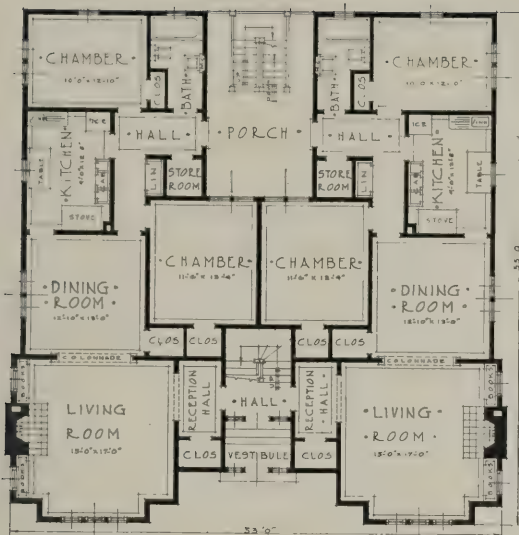
BW-1072 Kitchen Cabinet from our large Catalog No. 35, page 260, is complete in arrangement and will save many steps about the kitchen.

A COZY four apartment building of stucco, with gables of half-timber in English country style. The bay windows in front all open to the living rooms where they are fitted with window seats. A charming effect is produced by the roofs extending over the upper windows.

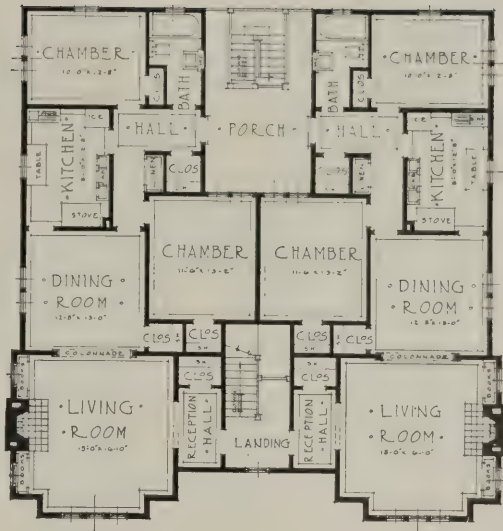
The half-timber may be left out of the design, or the house may be built of brick veneer instead of stucco. Other effects can readily be obtained by slight alterations.

There are two bedrooms, a living room, a dining room, and a kitchen in each apartment. The baths are conveniently located, and each apartment has the same built-in furnishings.

Four Flat 53'-0" x 55'-0"



• FIRST • FLOOR • PLAN •



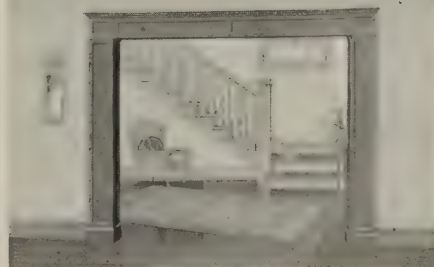
• SECOND • FLOOR • PLAN •

BW-158

MILLWORK RECOMMENDATIONS

Rear Door	BW- 232
Interior Doors	BW- 466
Interior Trim	BW- 840
Beam Ceiling	BW- 954
Kitchen Cabinet (similar)	BW-1072
Mantel and Bookcase	BW-1184
Colonnade	BW-1156
Medicine Cabinet	BW-1098
Linen Case	BW-1110
Stair Newel	BW-1240
Stair Rail	BW-1302
Stair Balusters	BW-1288

Designs from Catalog No. 35.



BW-1156 Colonnade is simple in design and attractive in appearance. It is used between the living and dining room. The design is from page 284 of our large Catalog No. 35.



BW-1184 Mantel and Bookcase Combination used on the forward wall of the living room as we enter makes the setting very attractive. Design is from page 292 of our large Catalog No. 35.



BW-160



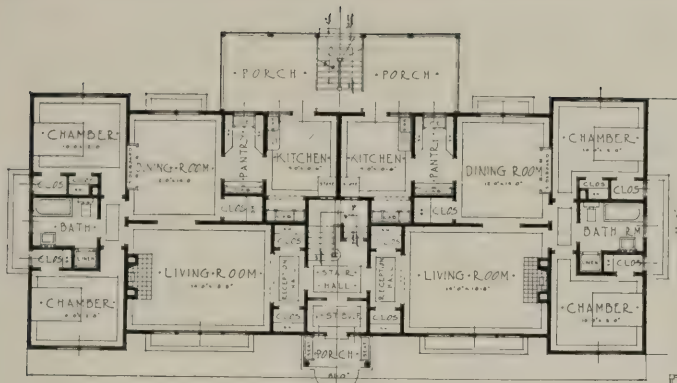
BW-1006 Sideboard is in keeping with the colonial exterior. However, it should not be used unless the dining room is finished in white enamel. Illustration is from page 232 of our large Catalog No. 35.

YOU will notice, this semi-Colonial four apartment building provides for frame construction, but you may build it in stucco if preferred.

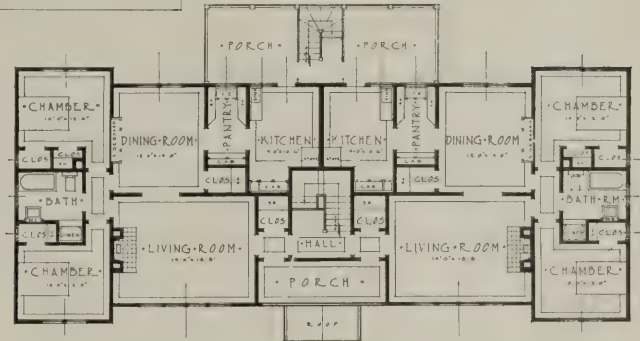
Observe the cozy loggia above the Colonial entrance, which may be used by both families living on the second floor. The shutters on the two upper and lower windows add much to its artistic effect with little additional expense.

Each apartment has five rooms; each living room is furnished with a beautiful mantel and fire-place and the dining room is furnished with an artistic sideboard. The ice boxes can be filled from the rear porches, a very desirable feature. The arrangement throughout insures ideal apartments.

Four Flat 81'-0" x 33'-10"



• FIRST FLOOR PLAN •



• SECOND FLOOR PLAN •

BW-160

MILLWORK RECOMMENDATIONS

Front Entrance	BW- 420
Rear Door	BW- 214
Interior Doors	BW- 450
French Doors	BW- 486
Interior Trim	BW- 855
Moulded Cornice	BW- 962
Kitchen Cabinet	BW-1074
Pantry Case (similar)	BW-1068
Sideboard	BW-1006
Mantel	BW-1212
Medicine Cabinet	BW-1100
Linen Case	BW-1112
Stair Newel	BW-1232
Stair Rail	BW-1304
Stair Balusters	BW-1268

Designs from Catalog No. 35.



BW-1220 Mantel from our large Catalog No. 35 on page 300 is neat and artistic in design and will appear very attractive at the end of the living room

Helpful Building Information

CARPENTER WORK

How To Estimate Studs: For walls and partitions allow one stud to the foot for 16 inch centers. This will be sufficient allowance to include doubling of studs on corners, doors, and windows. Plates and other places requiring studding must be estimated separately. To estimate the number of studding required for plates, add together in feet the lengths of the outside walls and partitions which require plates and divide by the length of the studding used for plates. This amount doubled will give the number required for double plates on the outside walls and single plates top and bottom on partitions.

How to Estimate Bridging: Joists are almost always bridged, and studs occasionally. A rough estimate is 3' to every lineal foot for each row. For joists spaced 16" centers, it takes bridging 17" long for 2" x 10" joist; for a 2" x 12" joist 18½"; for a 2" x 8" joist 16". For double or cross bridging it will then take twice that amount for each space of 16". Most lumber yards sell bridging already cut to fit any spacing or size of joist at so much a piece and in that case it would only be necessary to figure out the number of pieces required.

How to Estimate Sheathing: To estimate the quantity of sheathing, calculate the exact surface to be covered, deduct the openings and then add the following:—For floors 1/7 or 15%; for side walls 1/6 or 17%; for roofs 1/5 or 20%. Sheathing and ship-lap are sometimes nailed diagonally on sidewalls and floors then add 7% more to the previous figures for the waste, as each board has to be cut at both ends. Sheathing is sometimes spaced 2" on roofs and a deduction of about 1/6 should be made from the total area. A rule often used in figuring wall sheathing is to get the surface area without deducting openings, allowing the openings for waste.

How to Estimate Ship-lap: Get the exact surface and allow for the floors 1/6 or 17%; for sidewalls 1/5 or 20%; for roofs 1/4 or 25%. The exact surface or the number of board feet of sheathing or ship-lap is found by multiplying the outside measurement of the building by the height of the studding to which add for gables. The surface of a gable is found by multiplying the width of the building by half the height from the plate to the ridge of the roof.

How to Estimate Floors: There are two classes of flooring, namely dressed or square edged flooring, or dressed and matched flooring. The square edged flooring ordinarily has a face width about ½" less than its nominal width; thus a piece of 6" square edged flooring has a face width of 5½", a 4" piece has a face width of 3½". The loss in case of the 5½" face flooring is 1/11 and in case of the 3½" face, the loss is 1/7. But in addition to these mill losses, there is generally waste owing to bad ends, etc., so that after estimating the exact area of the floor, add the following:—For 6" flooring 1/9 or 11%; for 4" flooring add 1/5 or 20%; which gives the number of board feet required.

For estimating dressed and matched flooring, get the exact area and add the following:—For 6" flooring add 1/6 or 17%; for 4" flooring add 1/4 or 25%; for 2¼" flooring add 1/3 or 33 1/3%; and for 1¾" flooring add 5/12 or 42%, which gives the number of board feet required.

How to Estimate Siding: In estimating siding, calculate the exact surface, deducting openings and add 1/3 or 33% if 6" siding with 4½" to 4¾" to the weather; add 2/5 or 40% for 5" siding; add 1/2 or 50% for 4" siding to the actual surface which was found under the item sheathing. 6" siding is generally laid 4½" to the weather, 5" siding 3½" to the weather, and 4" siding 2½" to the weather.

ROOFING

Roof Pitch: The pitch of a roof is taken from the level of the walls to the ridge. A $\frac{1}{4}$ pitch is $\frac{1}{4}$ of the span over the walls; $\frac{1}{3}$ pitch is $\frac{1}{3}$ of the span, etc. Thus a 24' span would on a $\frac{1}{4}$ pitch give a rise of $\frac{1}{4}$ or 24' or 6'. A convenient rule to get the length of a rafter for a $\frac{1}{4}$ pitch roof is to multiply the span by $\frac{7}{12}$; for a $\frac{1}{3}$ pitch multiply span by $\frac{3}{5}$; for $\frac{3}{8}$ pitch by $\frac{5}{8}$; for a $\frac{1}{2}$ pitch by $\frac{7}{10}$; for $\frac{5}{8}$ pitch by $\frac{4}{5}$.

Shingles. (Cedar): Lay shingles $4\frac{1}{2}"$ to $5"$ to weather when slope of roof is $\frac{1}{2}$.

Exp. to Weather Inches	Width of Shingles	
	4"	6"
4"	900	600
$4\frac{1}{2}"$	800	540
$5\frac{1}{2}"$	720	480
6"	600	400
7"	514	343
8"	450	300

Above allows for no waste.

Allow 6% on plain work.

Allow 10% on hip, gambrel, etc.

Shingles are figured as 1000 shingles 4 inches wide, four bunches to 1000. For siding and wall, lay shingles $5"$ to weather.

Dimension shingles are 4, 5, and 6 inches wide.

One man should lay 1200 shingles in 8 hours on plain work and 900 per day on irregular work.

Use 5 lbs. of 3 penny per 1000.

Use $7\frac{1}{2}$ lbs. of 4 penny per 1000.

BRICK WORK

Brickwork: Brickwork is generally measured by the one-thousand bricks laid in the wall. Different methods of computing the number of bricks are followed in different sections of the country. The most general is to allow some certain number to the square foot for the different thicknesses of walls built. If there are many belts of cut stone, terra cotta, etc., they should be deducted, or too many actual bricks may be sent to the building.

Every sq. ft. of 4" to $4\frac{1}{2}"$ in thickness equals	7 brick
Every sq. ft. of 8" to 9" in thickness equals	14 brick
Every sq. ft. of 12" to 13" in thickness equals	21 brick
Every sq. ft. of 16" to 17" in thickness equals	28 brick
Every sq. ft. of 20" to 21" in thickness equals	35 brick
Every sq. ft. of 24" to 25" in thickness equals	42 brick

This method gives the actual brick required, allowing for waste and breakage but not the number in wall measure which would be on the basis of $7\frac{1}{2}$ brick for each 4". To find the number of brick by this rule, find the number of actual square feet in a wall and multiply by the number in table for a wall of that thickness. Usually half the openings are deducted. No allowance is made for very small openings.

Actual Quantity: From the table 21 bricks are required for a cubic foot, but 18 are enough of the national size which is becoming the standard $2\frac{1}{4} \times 4 \times 8\frac{1}{4}$. The actual number will usually run about $\frac{2}{3}$ of the wall measure when the openings are about the average number and size.

Mortar per 1000 Brick: For 1 to 3 cement and sand mortar allow $1\frac{1}{2}$ bbl. of cement and $\frac{5}{8}$ of a yard of sand. For a good lime and cement mortar allow $\frac{7}{8}$ bbl. lime, $1\frac{1}{4}$ bbl. of cement and $\frac{5}{8}$ yard of sand. For good lime allow $\frac{1}{2}$ bbl. lime and $\frac{3}{8}$ yard sand. Mortar colorings, red, $\frac{3}{8}$ " to $\frac{1}{2}$ " joints, allow 1 bbl. to 6,000 or 50 to 60 lbs. per 1000 brick. Mortar coloring, red, $\frac{1}{4}$ " joints, allow 1 bbl. to 8000. Coloring comes in barrels of 500 lbs. Fire clay, 1 ton to 7000 to 8000 brick, used for fire brick and flue lining.

Chimneys: Chimneys are usually estimated by the lineal foot in height. A bricklayer and laborer will lay on an average of 500 common brick a day on short chimneys, if the greater part is above the roof, the number is less.

Number of bricks required for small chimneys.

No. of Flues	Size of Flues	Size of Chimney	No. Brick to Foot
1	$8\frac{1}{2}$ x $8\frac{1}{2}$	17 x 17	29
2	$8\frac{1}{2}$ x $8\frac{1}{2}$	17 x 29	49
3	$8\frac{1}{2}$ x $8\frac{1}{2}$	17 x 37	66
1	$8\frac{1}{2}$ x 13	17 x 21	34
2	$8\frac{1}{2}$ x $8\frac{1}{2}$ & $8\frac{1}{2}$ x 13	17 x 33	54
2	$8\frac{1}{2}$ x 13	17 x 37	59
3	$8\frac{1}{2}$ x 13	17 x 54	86
1	$8\frac{1}{2}$ x 16	17 x 25	38
1	13 x 13	21 x 21	38
2	13 x 13 & 8" x 4"	29 x 37	108
1	13 x 16	21 x 25	44

CONCRETE WORK

Ingredients in One Cubic Yard of Concrete:—

Sand-voids, 40%; stone-voids, 45%; Portland-cement barrel yielding 3.65 cu. ft. of paste. Barrel specified to be 4.4 cu. ft.

Proportions by volume.....	1:2:4	1:2:5	1:2 $\frac{1}{2}$:5	1:3:5	1:3:6
Barrels cement per cubic yard concrete.....	1.30	1.16	1.07	0.96	0.90
Cubic yard sand per cubic yard concrete.....	0.42	0.38	0.44	0.47	0.44
Cubic yard stone per cubic yard concrete.....	0.84	0.95	0.88	0.78	0.88

To order material for a job that contains, for instance, 150 yards of concrete of a 1:3:5 mixture, it is only necessary to use the above table as follows:—

In the column for the 1:3:5 mixture opposite the barrels of cement per cubic yard is the factor 0.96 opposite cubic yards of sand 0.47 and opposite cubic yards of stone 0.78.

Each yard of concrete will require:—

0.96 barrels of cement, 0.47 cubic yards of sand, and 0.78 cubic yards of stone.

The total of the work will be:

150 x 0.96 = 144.00 barrels of cement

150 x 0.47 = 70.50 cubic yards of sand

150 x 0.78 = 117.00 cubic yards of stone

